

**Appendix 1-1.** Flow-duration exceedance probabilities, observed and computed from streamflow data, and regression equations for streamgages used in regression analysis.

[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
01200000	observed	10,700	1,880	969	699	562	473	403	305	200	121	80	62	49	36	26	15	7.4
	predicted	11,300	1,960	1,050	753	590	479	411	305	204	130	85	67	52	40	28	16	8.8
01312000	observed	6,780	2,640	1,460	982	740	580	471	331	217	150	120	105	91	74	55	28	12
	predicted	6,750	2,740	1,300	865	645	515	421	302	208	140	101	84	68	52	39	25	9.4
01314000	observed	13,400	5,650	2,940	1,900	1,440	1,130	920	650	420	289	230	200	170	140	107	68	41
	predicted	14,300	6,080	2,920	1,920	1,450	1,160	954	687	455	302	221	189	158	126	98	69	23
01319000	observed	--	1,940	908	540	380	281	219	143	86	54	37	28	20	14	9.6	5.3	--
	predicted	--	1,830	800	520	391	318	255	179	110	65	48	40	33	26	19	13	--
01329000	observed	7,280	1,980	1,070	745	568	467	392	295	210	159	128	113	99	85	70	56	40
	predicted	8,450	1,810	998	744	574	470	405	308	232	183	168	147	126	104	83	62	20
01329490	observed	18,000	3,790	2,220	1,610	1,280	1,060	898	660	443	312	244	210	177	145	115	83	57
	predicted	19,700	4,160	2,270	1,630	1,260	1,030	872	647	447	315	256	218	182	146	113	77	52
01330500	observed	3,650	841	436	300	230	187	158	119	82	59	48	42	37	32	26	20	12
	predicted	3,940	855	411	273	216	175	151	112	66	40	29	25	21	17	14	9.5	2.7
01332000	observed	4,200	754	348	220	160	125	103	74	48	32	23	19	14	11	8.5	5.7	3.3
	predicted	3,350	630	306	212	164	134	116	88	62	45	33	28	23	19	14	10	9.1
01332500	observed	10,400	1,720	856	585	453	372	316	243	173	127	103	91	79	68	56	42	25
	predicted	8,640	1,690	871	616	479	390	335	252	178	127	93	78	64	50	37	25	24
01333000	observed	2,200	546	282	194	151	125	105	77	51	34	24	20	16	12	8.3	5.0	3.4
	predicted	3,050	568	272	188	144	117	99	74	50	33	25	20	17	13	9.8	6.4	4.3
01333500	observed	--	645	320	223	174	140	118	84	52	30	19	15	11	8.1	6.0	3.8	--
	predicted	--	721	324	216	160	130	105	74	47	27	18	14	11	7.8	5.3	2.9	--
01334000	observed	6,350	1,240	656	460	367	304	260	202	147	110	90	79	69	58	47	35	21
	predicted	9,210	1,420	748	538	413	335	287	216	158	118	96	83	69	55	43	30	15*
01334500	observed	39,000	5,650	3,000	2,140	1,690	1,400	1,180	880	592	400	303	259	216	177	142	102	43
	predicted	28,800	5,970	3,200	2,270	1,750	1,430	1,210	895	616	426	317	267	219	173	131	87	73
01350000	observed	22,000	4,120	1,660	1,060	795	634	520	372	230	130	80	61	45	32	21	11	5.0
	predicted	14,100	3,850	1,720	1,090	854	696	575	413	240	140	83	67	52	39	28	16	7.4
01358500	observed	--	955	473	313	240	190	155	103	60	36	24	19	14	11	7.3	3.6	--
	predicted	--	930	429	288	214	173	139	97	59	34	23	18	13	9.7	6.4	3.4	--
01359750	observed	--	300	133	88	66	53	44	31	19	12	8.4	7.0	5.9	5.0	3.7	2.3	--
	predicted	--	305	133	87	65	52	42	29	17	8.9	5.8	4.4	3.3	2.5	1.7	0.89	--

**Appendix 1-1.** Flow-duration exceedance probabilities, observed and computed from streamflow data, and regression equations for streamgages used in regression analysis.

[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
01361000	observed	--	2,820	1,480	1,020	800	649	541	382	240	145	100	81	62	47	32	12	--
	predicted	--	2,900	1,470	1,010	772	630	517	368	221	136	104	84	66	51	36	22	--
01362200	observed	--	1,170	499	328	253	206	173	130	83	52	35	27	20	15	10	5.5	--
	predicted	--	1,240	537	348	271	221	183	133	82	50	32	26	20	15	11	6.8	--
01365000	observed	3,500	697	309	216	168	139	119	91	61	40	29	24	19	14	10	6.6	3.6
	predicted	3,770	692	310	209	161	132	110	81	52	34	22	17	13	9.7	6.6	3.8	2.4
01365500	observed	1,780	285	125	85	67	55	47	35	24	16	11	9.3	7.6	6.1	4.6	3.2	2.1
	predicted	2,060	281	130	90	69	56	48	35	23	15	10	8.3	6.6	5.1	3.7	2.3	2.7
01366650	observed	--	666	342	232	177	142	120	83	56	38	27	22	18	15	11	7.2	--
	predicted	--	718	324	214	166	136	114	83	49	26	15	11	8.8	6.6	4.6	2.5	--
01368500	observed	--	777	350	209	148	113	87	56	30	15	7.5	5.2	3.7	2.5	1.5	0.61	--
	predicted	--	695	308	203	154	125	102	72	42	20	10	7.4	5.3	3.7	2.3	1.1	--
01369000	observed	--	935	540	390	313	260	218	155	98	58	37	28	21	13	8.3	4.6	--
	predicted	--	1,080	536	372	290	236	201	148	94	54	33	26	21	16	11	6.4	--
01369500	observed	--	110	50	32	23	18	14	9.6	5.2	2.4	1.3	1.0	0.70	0.57	0.40	0.20	--
	predicted	--	114	47	31	23	19	15	10	6.2	2.9	1.4	0.93	0.62	0.41	0.23	0.09	--
01372200	observed	--	750	436	305	232	190	160	115	73	45	27	21	16	12	8.0	4.1	--
	predicted	--	847	436	308	241	196	167	123	79	48	34	28	22	18	13	8.0	--
01372300	observed	--	289	163	112	86	68	56	40	24	14	6.9	4.9	3.5	2.5	1.3	0.30	--
	predicted	--	294	147	104	83	67	58	43	27	16	11	8.7	6.8	5.3	3.7	2.2	--
01372500	observed	10,500	1,600	866	616	485	400	334	247	155	90	56	42	31	23	15	8.1	1.6
	predicted	9,420	1,530	819	587	466	379	326	240	152	94	68	55	44	35	25	15	2.0
01372800	observed	--	535	273	195	157	130	110	84	52	31	19	15	11	8.1	4.5	1.9	--
	predicted	--	544	278	199	154	124	106	78	52	32	22	17	14	10	7.4	4.3	--
01372850	observed	--	34	20	15	12	10	8.7	6.5	4.5	3.5	2.9	2.7	2.4	2.2	1.9	1.4	--
	predicted	--	64	30	21	16	13	11	8.4	5.4	3.1	2.3	1.8	1.4	1.1	0.83	0.51	--
01387450	observed	--	183	75	52	40	33	28	21	14	9.1	5.6	4.2	3.1	2.3	1.5	0.70	--
	predicted	--	160	76	54	43	35	31	23	15	8.9	5.0	3.8	2.9	2.2	1.5	0.81	--
01413500	observed	11,300	2,210	1,020	704	555	452	380	278	179	109	74	58	43	30	21	12	6.5
	predicted	10,300	2,450	1,130	751	581	472	390	280	174	112	78	64	51	39	28	17	8.1
01414500	observed	2,080	404	176	121	96	79	67	50	33	20	14	11	8.5	6.1	4.1	2.5	1.2
	predicted	2,080	416	180	119	91	74	61	44	28	18	13	10	7.7	5.8	4.0	2.4	1.2

**Appendix 1-1.** Flow-duration exceedance probabilities, observed and computed from streamflow data, and regression equations for streamgages used in regression analysis.

[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
01415000	observed	1,830	419	199	136	105	87	72	52	34	20	13	10	7.7	5.4	3.5	1.8	0.6
	predicted	2,340	450	199	132	100	81	67	48	30	19	13	9.8	7.5	5.5	3.7	2.1	1.1
01418500	observed	--	1,370	585	409	323	265	228	169	110	72	51	42	33	24	18	11	--
	predicted	--	1,420	652	439	338	276	230	168	110	73	52	43	34	26	19	12	--
01419500	observed	--	1,020	449	309	237	196	165	123	81	55	40	33	27	22	16	11	--
	predicted	--	1,070	492	333	255	209	174	127	84	55	37	30	24	18	12	7.6	--
01420000	observed	1,810	370	158	100	74	58	48	34	22	14	10	8.1	6.5	5.1	3.7	2.2	1.2
	predicted	1,990	330	147	100	76	62	52	38	25	15	10	7.9	6.0	4.4	3.0	1.7	1.3
01420500	observed	23,500	3,930	1,830	1,240	960	780	655	488	325	216	160	133	109	86	62	41	23
	predicted	18,800	3,630	1,780	1,220	944	774	644	472	308	206	145	119	94	71	51	31	20
01421900	observed	--	1,800	819	560	434	350	291	210	132	80	52	40	29	21	14	8.4	--
	predicted	--	1,840	843	549	427	346	288	207	124	76	51	41	33	26	19	12	--
01422500	observed	--	705	321	216	166	134	111	80	50	30	19	14	10	6.6	4.3	2.4	--
	predicted	--	733	325	213	163	132	109	78	49	30	18	14	11	7.7	5.1	2.8	--
01423000	observed	22,400	4,170	1,980	1,360	1,060	870	730	527	336	200	135	107	82	58	40	24	13
	predicted	17,600	4,280	2,060	1,380	1,070	866	717	516	317	198	134	109	87	66	48	30	12
01423500	observed	--	113	47	32	24	20	17	12	6.6	3.7	2.2	1.6	1.2	0.97	0.60	0.50	--
	predicted	--	116	48	32	24	19	16	11	6.9	4.0	2.4	1.7	1.2	0.85	0.53	0.25	--
0142400103	observed	--	270	122	83	62	50	42	30	18	9.5	5.4	3.5	2.4	1.5	0.80	0.40	--
	predicted	--	270	118	78	59	47	39	27	18	10	6.6	5.1	3.8	2.8	1.9	1.0	--
01426000	observed	--	905	403	257	194	155	127	87	51	27	16	12	8.2	5.5	3.7	2.0	--
	predicted	--	875	389	255	192	155	126	88	54	31	18	14	9.9	7.1	4.6	2.3	--
01427500	observed	--	1,380	631	403	300	241	200	140	87	54	38	30	24	18	12	6.9	--
	predicted	--	1,280	610	415	315	256	210	150	94	57	37	29	22	16	11	5.9	--
01428000	observed	--	486	228	155	119	95	79	54	32	19	12	9.4	7.2	5.6	3.9	1.8	--
	predicted	--	550	238	153	116	94	77	54	31	17	9.1	6.7	4.9	3.5	2.2	1.1	--
01435000	observed	6,090	1,470	575	389	304	250	215	166	119	84	65	56	46	35	25	15	8.2
	predicted	7,190	1,270	586	401	309	256	214	158	104	74	56	47	37	28	20	13	5.3
01498500	observed	--	1,800	859	587	464	380	312	218	132	76	49	38	29	22	16	9.3	--
	predicted	--	1,950	915	603	464	374	310	222	134	82	56	45	36	28	20	12	--
01499000	observed	--	1,200	558	366	294	244	205	145	89	51	35	28	21	16	12	7.6	--
	predicted	--	1,240	579	382	293	235	196	141	88	52	35	28	23	18	13	8.3	--

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[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
01501000	observed	--	2,260	1,100	752	576	465	380	267	170	102	69	55	42	32	23	16	--
	predicted	--	2,170	1,070	722	562	452	384	281	178	114	82	69	57	46	35	24	--
01502000	observed	3,700	780	330	220	170	140	117	84	53	31	21	17	13	10	7.2	4.0	1.4
	predicted	3,060	767	344	223	171	137	115	82	51	29	18	15	12	9.1	6.6	4.1	1.7
01502500	observed	19,000	5,740	2,890	1,990	1,540	1,260	1,050	760	480	297	200	160	130	100	77	52	27
	predicted	21,100	5,650	2,850	1,910	1,490	1,200	1,010	731	456	283	194	162	133	106	81	53	23
01503000	observed	72,100	22,700	12,100	8,440	6,600	5,450	4,560	3,260	2,080	1,300	880	713	564	430	312	202	105
	predicted	91,500	22,600	12,200	8,280	6,450	5,220	4,340	3,140	1,960	1,250	874	730	597	470	356	229	125
01505500	observed	--	772	352	235	179	145	120	82	49	26	14	10	7.3	5.0	3.0	0.80	--
	predicted	--	810	353	225	173	138	115	82	50	28	16	12	9.3	6.8	4.6	2.5	--
01507000	observed	--	6,030	3,030	2,090	1,630	1,310	1,080	760	482	298	195	160	130	105	78	50	--
	predicted	--	6,640	3,260	2,130	1,660	1,330	1,110	796	479	283	182	149	120	95	71	44	--
01507500	observed	--	1,230	514	315	236	185	150	99	59	34	19	14	10	7.3	4.5	2.0	--
	predicted	--	1,100	479	306	231	184	150	106	64	36	19	15	11	7.8	5.1	2.6	--
01508000	observed	--	45	19	13	9.6	7.5	6.0	4.1	2.4	1.1	0.52	0.35	0.24	0.17	0.11	0.07	--
	predicted	--	56	20	12	9.1	7.2	5.8	4.0	2.5	1.3	0.72	0.54	0.40	0.29	0.19	0.10	--
01510500	observed	--	3,090	1,360	878	662	524	430	300	183	110	71	55	42	32	22	14	--
	predicted	--	2,970	1,360	870	668	536	443	317	193	110	65	53	42	32	23	14	--
01512500	observed	55,400	15,000	8,720	6,000	4,500	3,590	2,970	2,150	1,350	850	583	480	390	308	230	150	80
	predicted	64,200	17,300	8,710	5,690	4,420	3,560	2,950	2,120	1,280	760	478	395	320	251	189	120	79
01513500	observed	--	40,200	21,300	14,600	11,400	9,100	7,570	5,350	3,300	2,420	1,400	1,140	900	695	520	340	--
	predicted	--	40,800	22,000	14,900	11,600	9,360	7,760	5,580	3,440	2,150	1,450	1,210	989	777	590	378	--
01514000	observed	--	2,420	1,090	680	484	374	301	205	117	64	38	29	23	18	14	11	--
	predicted	--	2,050	951	615	464	369	302	213	131	78	51	41	32	25	18	11	--
01515000	observed	124,000	47,100	26,500	18,300	14,400	11,700	9,800	7,200	4,580	2,790	1,900	1,500	1,180	887	662	430	237
	predicted	185,000	48,700	26,300	17,700	13,700	11,100	9,160	6,570	4,030	2,490	1,660	1,380	1,120	880	665	422	241
01520500	observed	63,000	7,700	3,190	1,910	1,380	1,040	820	544	300	170	110	90	73	55	38	20	7.8
	predicted	44,500	6,700	3,170	2,030	1,470	1,170	910	615	366	209	137	105	79	57	39	20	9.6
01527000	observed	--	358	186	133	104	85	70	52	31	19	14	11	9.4	7.8	6.0	4.0	--
	predicted	--	468	205	130	96	76	61	43	25	16	13	11	8.8	7.2	5.6	3.8	--
01528000	observed	4,180	780	316	180	125	94	76	51	28	13	6.8	5.0	3.6	2.6	1.8	1.0	0.10
	predicted	3,590	663	287	182	132	104	83	57	34	19	14	11	8.4	6.5	4.6	2.7	0.54

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[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
01529500	observed	24,400	3,610	1,690	1,110	812	632	504	355	217	130	92	77	64	52	40	27	8.0
	predicted	21,700	3,990	1,880	1,210	888	701	557	381	227	132	96	77	61	47	35	21	7.8
01530500	observed	3,030	791	308	189	135	106	86	60	39	26	20	17	15	12	9.7	6.7	2.0
	predicted	4,210	703	315	203	149	117	94	65	40	22	16	12	9.7	7.6	5.4	3.2	1.1
03013000	observed	8,150	3,170	1,900	1,410	1,080	850	676	466	292	166	108	87	70	55	44	34	22
	predicted	11,500	3,460	1,750	1,200	881	698	574	415	306	190	126	105	85	67	50	32	9.4
04213500	observed	22,900	5,530	2,500	1,620	1,210	1,000	852	640	440	293	220	188	158	130	106	81	52
	predicted	22,700	5,200	2,640	1,780	1,320	1,050	866	627	447	278	190	161	134	109	85	58	55
04214500	observed	7,650	2,000	800	463	330	255	206	145	90	51	33	26	20	16	11	6.4	1.3
	predicted	6,600	1,880	822	507	372	292	237	168	107	57	33	27	22	17	13	8.5	2.4
04215500	observed	8,950	2,300	966	559	386	295	235	162	100	57	35	27	21	16	11	7.0	3.1
	predicted	6,350	1,780	814	524	385	304	248	177	120	68	41	33	27	21	15	9.7	4.2
04217000	observed	6,660	1,840	812	515	371	292	238	166	101	56	35	28	21	16	11	6.4	0.60
	predicted	6,100	1,590	760	497	368	290	238	168	109	66	45	36	29	22	16	10	2.4
04217500	observed	--	2,400	1,100	698	500	390	310	215	136	78	49	39	31	24	19	11	--
	predicted	--	2,130	1,020	662	494	389	320	227	144	85	55	44	35	27	20	12	--
04218000	observed	--	3,120	1,640	1,100	799	610	492	339	210	112	70	55	43	33	23	13	--
	predicted	--	3,410	1,620	1,030	776	612	504	357	222	125	72	57	45	35	25	15	--
04225000	observed	5,430	1,230	520	335	252	199	164	114	71	46	36	32	28	24	20	16	10
	predicted	8,390	1,240	582	377	277	218	176	122	75	47	39	32	27	22	17	11	8.0
04227000	observed	--	2,250	1,130	707	523	414	340	240	154	99	73	62	50	42	33	23	--
	predicted	--	2,370	1,160	757	560	440	357	247	149	93	74	60	49	39	29	19	--
04230500	observed	6,500	1,560	745	508	394	314	260	185	112	65	47	41	36	31	26	20	13
	predicted	7,960	1,540	758	500	373	294	243	171	108	68	48	39	31	24	18	11	7.6
04231000	observed	4,120	994	457	292	214	169	135	92	52	27	18	14	10	7.3	4.6	2.0	0.27
	predicted	3,780	850	404	260	196	154	128	89	52	31	20	15	12	8.8	6.1	3.3	0.51
04232100	observed	--	542	250	155	112	90	74	54	35	16	8.6	6.3	4.7	3.4	2.4	1.2	--
	predicted	--	588	247	150	115	90	76	54	32	16	8.6	6.9	5.6	4.5	3.4	2.2	--
04233000	observed	1,750	292	128	86	67	54	45	33	21	13	9.2	7.8	6.6	5.4	4.3	3.2	2.1
	predicted	2,050	315	138	89	66	52	42	29	17	10	7.5	5.9	4.6	3.6	2.6	1.5	0.63
04234000	observed	8,280	1,390	640	418	317	259	217	160	103	66	45	36	30	24	18	11	3.6
	predicted	6,360	1,460	662	426	317	251	204	143	90	52	35	29	23	18	13	8.4	2.1

**Appendix 1-1.** Flow-duration exceedance probabilities, observed and computed from streamflow data, and regression equations for streamgages used in regression analysis.

[Pn, n probability exceedance; --, no data]

U.S. Geological Survey streamgage number	Type	Flow-duration exceedance, in cubic feet per second																
		P0.0055	P1	P5	P10	P15	P20	P25	P35	P50	P65	P75	P80	P85	P90	P95	P99	P99.9945
04243500	observed	5,210	1,180	561	371	282	230	195	145	100	66	48	42	36	30	25	18	10
	predicted	5,120	1,200	580	383	299	239	206	151	95	58	36	29	23	18	14	8.5	6.7
04245000	observed	--	934	431	292	230	192	165	124	86	58	44	39	34	29	24	18	--
	predicted	--	1,010	477	312	244	194	167	123	78	49	31	26	21	17	13	8.5	--
04245200	observed	--	345	150	102	82	69	59	45	30	19	13	11	9.0	7.4	5.8	4.3	--
	predicted	--	370	169	110	84	67	57	41	27	18	13	10	8.6	7.0	5.4	3.7	--
04250750	observed	--	2,080	1,060	685	507	396	324	223	140	84	49	34	23	15	9.0	4.5	--
	predicted	--	1,930	913	597	466	373	319	236	154	97	63	54	46	38	30	21	--
04265000	observed	7,780	3,300	1,920	1,360	1,040	847	713	544	376	275	220	196	173	146	117	82	59
	predicted	9,900	4,030	2,000	1,360	1,000	798	647	460	324	207	161	137	115	94	73	51	25
04265100	observed	--	300	140	98	75	58	49	35	23	13	9.2	7.4	6.1	5	3.7	2.6	--
	predicted	--	388	171	112	82	65	53	37	24	14	9.6	7.6	5.9	4.5	3.2	1.9	--
04274000	observed	--	1,470	714	480	357	280	230	162	110	82	69	62	57	50	44	34	--
	predicted	--	1,410	692	475	345	273	223	160	121	90	79	68	58	47	37	27	--
04275000	observed	8,200	2,440	1,140	734	535	410	327	227	150	105	84	75	66	56	46	34	22
	predicted	7,680	2,090	1,040	722	530	424	344	245	170	122	114	97	81	65	51	36	13
04275500	observed	22,000	4,890	2,380	1,550	1,160	931	763	545	370	270	225	207	189	170	145	114	46
	predicted	17,800	4,380	2,260	1,570	1,150	918	744	528	369	269	255	221	189	155	124	91	85
04276500	observed	8,400	2,300	1,070	710	540	428	348	249	161	112	90	82	72	62	50	33	16
	predicted	8,060	2,190	1,090	729	545	435	356	251	156	105	93	78	65	53	41	28	7.8

\* Computed using alternative regression equation

**Appendix 2-1.** Description of reference streamgages used in the development of the New York Streamflow Estimation Tool with period of record and use of data.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

Map number (fig. 1)	U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Drainage area (square miles)	Period of record	Period of record used in analysis	Status	Used in regression
1	01200000	Tenmile River near Gaylordsville, CT	203	10/01/1930 - 02/07/1989, 11/02/1990 - 12/19/1990, 10/01/1991 - 09/30/2010	10/01/1930 - 09/30/1987, 10/01/1991 - 09/30/2010	D	x
2	01312000	Hudson River near Newcomb, NY	192	10/01/1925 - 09/30/1987, 10/01/2002 - 09/30/2010	10/01/1925 - 09/30/1987, 10/01/2002 - 09/30/2010	A	x
3	01313500	Cedar River below Chain Lakes near Indian Lake, NY	160	10/01/1930 - 09/30/1961	10/01/1930 - 09/30/1961	D	
4	01314000	Hudson River at Gooley near Indian Lake, NY	419	10/01/1916 - 09/30/1968	10/01/1916 - 09/30/1968	D	x
5	01319000	East Branch Sacandaga River at Griffin, NY	114	10/01/1933 - 05/31/1978	10/01/1933 - 05/31/1978	D	x
6	01329000	Batten Kill at Arlington, VT	152	10/01/1928 - 06/30/1984	10/01/1928 - 06/30/1984	D	x
7	01329490	Battenkill below mill at Battenville, NY	396	10/01/1922 - 09/30/1968, 04/01/1998 - 09/30/2010	10/01/1922 - 09/30/1968, 04/01/1998 - 09/30/2010	A	x
8	01330000	Glowegee Creek at West Milton, NY	26.0	04/04/1948 - 06/30/1963, 10/01/1990 - 09/30/2010	04/04/1948 - 06/30/1963, 10/01/1990 - 09/30/2010	A	
9	01330500	Kayaderoseras Creek near West Milton, NY	84.2	07/30/1927 - 03/31/1995	07/30/1927 - 03/31/1995	D	x
10	01332000	North Branch Hoosic River at North Adams, MA	40.9	06/22/1931 - 09/30/1990	06/22/1931 - 09/30/1990	D	x
11	01332500	Hoosic River near Williamstown, MA	126	07/19/1940 - 09/30/2010	07/19/1940 - 09/30/2010	A	x
12	01333000	Green River at Williamstown, MA	42.6	09/20/1949 - 09/30/2010	09/20/1949 - 09/30/2010	A	x
13	01333500	Little Hoosic River at Petersburgh, NY	56.1	07/01/1951 - 09/30/1996	07/01/1951 - 09/30/1996	D	x
14	01334000	Walloomsac River near North Bennington, VT	111	06/27/1931 - 09/30/2010	06/27/1931 - 09/30/2010	A	x
15	01334500	Hoosic River near Eagle Bridge, NY	510	08/13/1910 - 03/31/1922, 07/25/1923 - 09/30/2010	08/13/1910 - 03/31/1922, 07/25/1923 - 09/30/2010	A	x
16	01349000	Otsquago Creek at Fort Plain, NY	61.0	10/01/1949 - 09/30/1989	10/01/1949 - 09/30/1989	D	
17	01350000	Schoharie Creek at Prattsville, NY	237	11/09/1902 - 09/30/2010	01/10/1907 - 09/30/2010	A	x
18	01350120	Platter Kill at Gilboa, NY	10.9	01/28/1975 - 09/30/2010	01/28/1975 - 09/30/2010	A	
19	01350140	Mine Kill near North Blenheim, NY	16.2	12/13/1974 - 09/30/2010	12/13/1974 - 09/30/2010	A	
20	01358500	Poesten Kill near Troy, NY	89.4	10/01/1923 - 09/30/1968	10/01/1923 - 09/30/1968	D	x
21	01359750	Moordener Kill at Castleton-on-Hudson, NY	32.6	10/01/1957 - 03/31/1995	10/01/1957 - 03/31/1995	D	x
22	01361000	Kinderhook Creek at Rossman, NY	329	04/01/1906 - 06/30/1907, 08/01/1907 - 12/31/1910, 10/01/1928 - 09/30/1968	10/01/1928 - 09/30/1968	D	x
23	01362200	Esopus Creek at Allaben, NY	63.7	10/01/1963 - 09/30/2010	10/01/1963 - 09/30/2010	A	x
24	01365000	Rondout Creek near Lowes Corners, NY	38.3	02/04/1937 - 09/30/2010	02/04/1937 - 09/30/2010	A	x
25	01365500	Chestnut Creek at Grahamsville, NY	20.9	11/09/1938 - 03/31/1987, 09/25/1998 - 09/30/2010	11/9/1938 - 03/31/1987, 09/25/1998 - 09/30/2010	A	x
26	01366650	Sandburg Creek at Ellenville, NY	52.8	10/01/1957 - 09/30/1977	10/01/1957 - 09/30/1977	D	x
27	01368500	Rutgers Creek at Gardnerville, NY	59.7	10/01/1943 - 09/30/1968	10/01/1943 - 09/30/1968	D	x
28	01369000	Pochuck Creek near Pine Island, NY	98.0	09/01/1937 - 09/30/1977	09/01/1937 - 09/30/1977	D	x
29	01369500	Quaker Creek at Florida, NY	9.74	10/01/1937 - 9/30/1979	10/01/1937 - 09/30/1979	D	x
30	01372200	Wappinger Creek near Clinton Corners, NY	92.4	01/01/1956 - 12/31/1956, 04/01/1957 - 04/30/1957, 07/01/1957 - 12/31/1975	01/01/1956 - 12/31/1956, 04/01/1957 - 04/30/1957, 07/01/1957 - 12/31/1975	D	x
31	01372300	Little Wappinger Creek at Salt Point, NY	32.9	01/01/1956 - 12/31/1975	01/01/1956 - 12/31/1975	D	x

**Appendix 2-1.** Description of reference streamgages used in the development of the New York Streamflow Estimation Tool with period of record and use of data.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

Map number (fig. 1)	U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Drainage area (square miles)	Period of record	Period of record used in analysis	Status	Used in regression
32	01372500	Wappinger Creek near Wappingers Falls, NY	181	08/07/1928 - 09/30/2010	08/07/1928 - 09/30/2010	A	x
33	01372800	Fishkill Creek at Hopewell Junction, NY	57.3	10/01/1957-12/31/1975	04/01/1963 - 12/31/1975	D	x
34	01372850	Whortlekill Creek at Hopewell Junction, NY	7.37	08/01/1959 - 09/30/1968	08/01/1959 - 09/30/1968	D	x
35	01387400	Ramapo River at Ramapo, NY	86.9	06/28/1979 - 09/30/2010	06/28/1979 - 09/30/2010	A	
36	01387450	Mahwah River near Suffern, NY	12.3	08/01/1958 - 09/30/1995, 09/30/2005 - 09/30/2010	08/01/1958 - 09/30/1995, 09/30/2005 - 09/30/2010	D	x
37	01413500	East Branch Delaware River at Margaretville, NY	163	02/01/1937 - 09/30/2010	02/01/1937 - 09/30/2010	A	x
38	01414000	Platte Kill at Dunraven, NY	34.9	10/01/1941 - 09/30/1962, 12/05/1996 - 09/30/2010	10/01/1941 - 09/30/1962, 12/05/1996 - 09/30/2010	A	
39	01414500	Mill Brook at Dunraven, NY	25.2	02/01/1937 - 09/30/2010	02/01/1937 - 09/30/2010	A	x
40	01415000	Tremper Kill near Andes, NY	33.2	02/01/1937 - 09/30/2010	02/01/1937 - 09/30/2010	A	x
41	01415500	Terry Clove Kill near Pepacton, NY	13.6	01/01/1937 - 09/30/1962	01/01/1937 - 09/30/1962	D	
42	01418500	Beaver Kill at Craigie Clair, NY	81.9	10/01/1937 - 09/30/1970	10/01/1937 - 09/30/1970	D	x
43	01419500	Willowemoc Creek near Livingston Manor, NY	62.6	08/29/1937 - 09/30/1970	08/29/1937 - 09/30/1970	D	x
44	01420000	Little Beaver Kill near Livingston Manor, NY	20.1	10/01/1924 - 09/30/1981	10/01/1924 - 09/30/1981	D	x
45	01420500	Beaver Kill at Cooks Falls, NY	241	07/25/1913 - 09/30/2010	07/25/1913 - 09/30/2010	A	x
46	01421000	East Branch Delaware River at Fishs Eddy, NY	784	11/19/1912 - 02/01/1913, 03/01/1913 - 06/30/1913, 07/26/1913 - 09/30/2010	11/19/1912 - 02/01/1913, 03/01/1913 - 06/30/1913, 07/26/1913 - 09/14/1954	A	
	01421000		regulated period	09/15/1954 - 09/30/2010			
47	01421900	West Branch Delaware River upstream from Delhi, NY	134	04/01/1937 - 09/30/1970, 12/05/1996 - 09/30/2010	04/01/1937 - 09/30/1970, 12/05/1996 - 09/30/2010	A	x
48	01422500	Little Delaware River near Delhi, NY	49.8	10/01/1937 - 09/30/1970, 01/21/1997 - 09/30/2010	10/01/1937 - 09/30/1970, 01/21/1997 - 09/30/2010	A	x
49	01423000	West Branch Delaware River at Walton, NY	332	10/01/1950 - 09/30/2010	10/01/1950 - 09/30/2010	A	x
50	01423500	Dryden Brook near Granton, NY	8.10	10/01/1952-06/30/1967	10/01/1952-06/30/1967	D	x
51	0142400103	Trout Creek near Trout Creek, NY	20.2	10/01/1952 - 06/30/1967, 12/05/1996 - 09/30/2010	10/01/1952 - 06/30/1967, 12/05/1996 - 09/30/2010	A	x
52	01424500	Trout Creek near Cannonsville, NY	49.5	10/01/1940 - 09/30/1963	10/01/1940 - 09/30/1963	D	
53	01426000	Oquaga Creek at Deposit, NY	67.6	10/01/1940 - 09/30/1973	10/01/1940 - 09/30/1973	D	x
54	01426500	West Branch Delaware River at Hale Eddy, NY	595	11/15/1912 - 02/12/1913, 03/01/1913 - 09/30/2010	11/15/1912 - 02/12/1913, 03/01/1913 - 09/30/1963	A	
	01426500		regulated period	10/01/1963 - 09/30/2010			
55	01427500	Callicoon Creek at Callicoon, NY	110	10/01/1940 - 09/30/1982	10/01/1940 - 09/30/1982	D	x
56	01428000	Tenmile River at Tusten, NY	45.5	10/01/1946 - 09/30/1973	10/01/1946 - 09/30/1973	D	x
57	01434025	Biscuit Brook above Pigeon Brook at Frost Valley, NY	3.72	06/08/1983 - 09/30/2010	06/08/1983 - 09/30/2010	D	
58	01435000	Neversink River near Claryville, NY	66.6	11/01/1937 - 05/31/1949, 07/23/1951 - 09/30/2010	11/01/1937 - 05/31/1949, 07/23/1951 - 09/30/2010	A	x
59	01437000	Neversink River at Oakland Valley, NY	223	07/24/1928 - 09/30/1973	07/24/1928 - 06/01/1953	D	
	01437000		regulated period	06/02/1953 - 09/30/1973			
60	01496500	Oaks Creek at Index, NY	102	11/23/1929 - 09/30/1932, 10/01/1937 - 03/31/1995	05/31/1964 - 05/30/1974, 10/01/1979 - 03/31/1995	D	



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Map number (fig. 1)	U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Drainage area (square miles)	Period of record	Period of record used in analysis	Status	Used in regression
	01496500		regulated period	11/23/1929 - 09/30/1932, 10/01/1937 - 05/30/1964, 06/01/1974 - 09/30/1979			
61	01498500	Charlotte Creek at West Davenport, NY	167	10/01/1938 - 10/09/1975	10/01/1938 - 10/09/1975	D	x
62	01499000	Otego Creek near Oneonta, NY	108	10/01/1940 - 09/30/1968	10/01/1940 - 09/30/1968	D	x
63	01501000	Unadilla Creek near New Berlin, NY	199	10/01/1924 - 09/30/1968	10/01/1924 - 09/30/1968	D	x
64	01502000	Butternut Creek at Morris, NY	59.7	06/19/1938 - 03/31/1995	06/19/1938 - 03/31/1995	D	x
65	01502500	Unadilla River at Rockdale, NY	520	11/22/1929 - 09/30/1933, 01/29/1937 - 03/31/1995, 10/01/2000 - 09/30/2010	11/22/1929 - 09/30/1933, 01/29/1937 - 03/31/1995, 10/01/2000 - 09/30/2010	A	x
66	01503000	Susquehanna River at Conklin, NY	2,232	01/01/1913 - 09/30/2010	01/01/1913 - 09/30/2010	A	x
67	01505500	Canasawacta Creek near South Plymouth, NY	57.9	10/01/1945 - 09/30/1975	10/01/1945 - 09/30/1975	D	x
68	01507000	Chenango River at Greene, NY	593	10/01/1937 - 09/30/1970, 10/01/2009 - 09/30/2010	10/01/1937 - 09/30/1970, 10/01/2009 - 09/30/2010	D	x
69	01507500	Genegantslet Creek at Smithville Flats, NY	82.3	10/01/1938 - 09/30/1970	10/01/1938 - 09/30/1970	D	x
70	01508000	Shackham Brook near Truxton, NY	3.16	12/01/1932 - 09/30/1968	12/01/1932 - 09/30/1968	D	x
71	01510000	Otselic River at Cincinnatus, NY	147	06/24/1938 - 09/30/1964, 10/01/1969 - 09/30/2010	06/24/1938 - 09/30/1964, 10/01/1969 - 09/30/2010	A	
72	01510500	Otselic River near Upper Lisle, NY	217	10/01/1937 - 09/30/1969	10/01/1937 - 09/30/1969	D	x
73	01512500	Chenango River near Chenango Forks, NY	1,483	11/11/1912 - 09/30/2010	11/11/1912 - 09/30/2010	A	x
74	01513500	Susquehanna River at Vestal, NY	3,941	10/01/1937 - 06/30/1967, 10/01/2009 - 09/30/2010	10/01/1937 - 06/30/1967, 10/01/2009 - 09/30/2010	D	x
75	01514000	Owego Creek near Owego, NY	185	10/01/1930 - 10/10/1978, 10/14/1978 - 11/07/1978	10/01/1930 - 10/10/1978, 10/14/1978 - 11/07/1978	D	x
76	01515000	Susquehanna River near Waverly, NY	4,773	03/01/1937 - 03/31/1995, 10/01/2000 - 09/30/2010	03/01/1937 - 03/31/1995, 10/01/2000 - 09/30/2010	A	x
77	01520500	Tioga River at Lindley, NY	771	04/01/1930 - 03/31/1995, 10/01/2009 - 09/30/2010	04/01/1930 - 03/31/1995, 10/01/2009 - 09/30/2010	D	x
78	01527000	Cohocton River at Cohocton, NY	52.2	10/01/1950 - 10/22/1981	10/01/1950 - 10/22/1981	D	x
79	01528000	Fivemile Creek near Kanona, NY	66.8	02/21/1937 - 03/31/1995	02/21/1937 - 03/31/1995	D	x
80	01529500	Cohocton River near Campbell, NY	470	07/11/1918 - 09/30/2010	07/11/1918 - 09/30/2010	A	x
81	01530500	Newtown Creek at Elmira, NY	77.5	01/01/1939 - 07/31/1989	01/01/1939 - 07/31/1989	D	x
82	03011020	Allegheny River at Salamanca, NY	1,608	09/04/1903 - 09/30/2010	09/04/1903 - 09/30/2010	A	
83	03013000	Conewango Creek at Waterboro, NY	290	09/23/1938 - 09/30/1993	09/23/1938 - 09/30/1993	D	x
84	04213500	Cattaraugus Creek at Gowanda, NY	436	11/09/1939 - 03/31/1998, 10/01/1999 - 09/30/2010	11/09/1939 - 03/31/1998, 10/01/1999 - 09/30/2010	A	x
85	04214500	Buffalo Creek at Gardenville, NY	142	10/01/1938 - 09/30/2010	10/01/1938 - 09/30/2010	A	x
86	04215000	Cayuga Creek near Lancaster, NY	96.4	09/15/1938 - 09/30/1968, 05/01/1974 - 09/30/2010	09/15/1938 - 09/30/1968, 05/01/1974 - 09/30/2010	A	
87	04215500	Cazenovia Creek at Ebenezer, NY	135	06/24/1940 - 09/30/2010	06/24/1940 - 09/30/2010	A	x
88	04216418	Tonawanda Creek at Attica, NY	76.9	10/01/1977 - 09/30/2010	10/01/1977 - 09/30/2010	A	
89	04217000	Tonawanda Creek at Batavia, NY	171	07/30/1944 - 09/30/2010	07/30/1944 - 09/30/2010	A	x

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Map number (fig. 1)	U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Drainage area (square miles)	Period of record	Period of record used in analysis	Status	Used in regression
90	04217500	Tonawanda Creek near Alabama, NY	231	10/01/1955 - 09/30/1989	10/01/1955 - 09/30/1989	D	x
91	04218000	Tonawanda Creek at Rapids, NY	349	08/01/1955 - 09/30/1965, 09/13/1979 - 09/30/2010	08/01/1955 - 09/30/1965, 09/13/1979 - 09/30/2010	A	x
92	04221000	Genesee River at Wellsville, NY	288	10/01/1955 - 09/30/1958, 10/01/1972 - 09/30/2010	10/01/1955 - 09/30/1958, 10/01/1972 - 09/30/2010	A	
93	04221500	Genesee River at Scio, NY	308	10/01/1916 - 09/30/1972	10/01/1916 - 09/30/1972	D	
94	04224775	Canaseraga Creek above Dansville, NY	88.9	07/30/1974 - 09/30/2010	07/30/1974 - 09/30/2010	A	
95	04225000	Canaseraga Creek near Dansville, NY	152	10/01/1910 - 09/30/1912, 10/01/1915 - 09/30/1916, 10/01/1920 - 09/30/1976	10/01/1920 - 09/30/1976	D	x
96	04227000	Canaseraga Creek at Shakers Crossing, NY	335	11/01/1958 - 09/30/1970, 10/01/1974 - 09/30/2010	11/01/1958 - 09/30/1970, 10/01/1974 - 09/30/2010	A	x
97	04230380	Oatka Creek at Warsaw, NY	39.1	01/01/1964 - 09/30/2010	01/01/1964 - 09/30/2010	A	
98	04230500	Oatka Creek at Garbutt, NY	200	10/01/1945 - 09/30/2010	10/01/1945 - 09/30/2010	A	x
99	04231000	Black Creek at Churchville, NY	130	10/01/1946 - 09/30/2010	10/01/1946 - 09/30/2010	A	x
100	04232100	Sterling Creek at Sterling, NY	44.4	04/30/1957 - 03/31/1995	04/30/1957 - 03/31/1995	D	x
101	04233000	Cayuga Inlet near Ithaca, NY	35.2	03/03/1937 - 09/30/2010	03/03/1937 - 09/30/2010	A	x
102	04234000	Fall Creek near Ithaca, NY	126	02/15/1925 - 09/30/2010	02/15/1925 - 09/30/2010	A	x
103	04240120	Ley Creek at Park Street, Syracuse, NY	29.9	12/01/1972 - 09/30/2010	12/01/1972 - 09/30/2010	A	
104	04243500	Oneida Creek at Oneida, NY	113	10/01/1949 - 09/30/2010	10/01/1949 - 09/30/2010	A	x
105	04245000	Limestone Creek at Fayetteville, NY	85.5	12/01/1939 - 09/30/1986	12/01/1939 - 09/30/1986	D	x
106	04245200	Butternut Creek near Jamesville, NY	32.2	07/01/1958 - 09/30/1999	07/01/1958 - 09/30/1999	D	x
107	04250750	Sandy Creek near Adams, NY	137	08/22/1957 - 03/31/1995, 06/22/2002 - 09/30/2010	08/22/1957 - 03/31/1995, 06/22/2002 - 09/30/2010	A	x
108	04254500	Moose River at Mckeever, NY	363	10/01/1905 - 09/30/1909, 10/01/1912 - 09/30/1970	10/01/1922 - 09/30/1970	D	
109	04256000	Independence River at Donnattsburg, NY	88.7	07/01/1942 - 09/30/2010	07/01/1942 - 09/30/2010	A	
110	04265000	Grass River at Pyrites, NY	333	08/04/1924 - 09/30/1977	08/04/1924 - 09/30/1977	D	x
111	04265100	Elm Creek near Hermon, NY	32.6	10/01/1958 - 09/30/1968	10/01/1958 - 09/30/1968	D	x
112	04268800	West Branch Saint Regis River near Parishville, NY	171	10/01/1958 - 09/30/1968, 06/01/1991 - 09/30/2010	10/01/1958 - 09/30/1968, 06/01/1991 - 09/30/2010	A	
113	04269000	Saint Regis River at Brasher Center, NY	612	10/01/1920 - 09/30/1996, 10/01/1997 - 09/30/2010	10/01/1920 - 09/30/1996, 10/01/1997 - 09/30/2010	A	
114	04270200	Little Salmon River at Bombay, NY	92.2	08/01/1957 - 11/30/1957, 07/01/1958 - 03/31/1995, 04/26/2002 - 09/30/2010	08/01/1957 - 11/30/1957, 07/01/1958 - 03/31/1995, 04/26/2002 - 09/30/2010	A	
115	04271815	Little Chazy River near Chazy, NY	50.3	03/01/1990 - 09/30/2010	03/01/1990 - 09/30/2010	A	

**Appendix 2-1.** Description of reference streamgages used in the development of the New York Streamflow Estimation Tool with period of record and use of data.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

Map number (fig. 1)	U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Drainage area (square miles)	Period of record	Period of record used in analysis	Status	Used in regression
116	04273700	Salmon River at South Plattsburgh, NY	63.3	05/01/1959 - 11/30/1959, 04/01/1960 - 11/30/1960, 04/01/1961 - 11/30/1961, 04/01/1962 - 11/30/1962, 04/01/1963 - 11/30/1963, 04/01/1964 - 11/30/1964, 04/01/1965 - 09/30/1968, 03/01/1990 - 09/30/2010	05/01/1959 - 11/30/1959, 04/01/1960 - 11/30/1960, 04/01/1961 - 11/30/1961, 04/01/1962 - 11/30/1962, 04/01/1963 - 11/30/1963, 04/01/1964 - 11/30/1964, 04/01/1965 - 09/30/1968, 03/01/1990 - 09/30/2010	A	
117	04274000	West Branch Ausable River near Lake Placid, NY	116	07/01/1916 - 12/31/1916, 05/01/1917 - 12/31/1917, 08/01/1919 - 09/30/1968	08/01/1919 - 09/30/1968	D	x
118	04275000	East Branch Ausable River at Au Sable Forks, NY	198	09/05/1924 - 09/30/1995	09/05/1924 - 09/30/1995	D	x
119	04275500	Ausable River near Au Sable Forks, NY	446	08/17/1910 - 12/31/1910, 02/25/1911 - 12/31/1912, 01/27/1913 - 02/02/1913, 02/28/1913 - 02/10/1914, 02/21/1914 - 12/21/1914, 12/31/1914 - 01/21/1915, 02/06/1915 - 02/16/1915, 02/24/1915 - 03/02/1915, 03/06/1915 - 08/17/1917, 08/26/1917 - 09/30/1968, 03/01/1990 - 09/30/2010	03/06/1915 - 08/17/1917, 08/26/1917 - 09/30/1968, 03/01/1990 - 09/30/2010	A	x
120	04276500	Bouquet River at Willsboro, NY	270	07/23/1923 - 09/30/1968, 03/01/1990 - 09/30/2010	07/23/1923 - 09/30/1968, 03/01/1990 - 09/30/2010	A	x
121	4278300	Northwest Bay Brook near Bolton Landing, NY	22.0	10/01/1965 - 09/30/1968, 10/01/1971 - 09/30/1997	10/01/1965 - 09/30/1968, 10/01/1971 - 09/30/1997		

**Appendix 3-1.** Reference streamgages with index streamgage used for MOVE.3 (Vogel and Stedinger, 1985) record extension.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Part of record extended	U.S. Geological Survey streamgage(s) used as index to extend record		Correlation coefficient between log-transformed flow records
			Number	Name	
01200000	Tenmile River near Gaylordsville, CT	10/01/1987 - 09/30/1991	01372500	Wappinger Creek near Wappingers Falls, NY	0.97
01312000	Hudson River near Newcomb, NY	10/01/1987 - 09/30/2002	04268800	West Branch Saint Regis River near Parishville, NY	0.86
			04269000	Saint Regis River at Brasher Center, NY	0.84
01313500	Cedar River below Chain Lakes near Indian Lake, NY	10/01/1961 - 09/30/2010	01312000	Hudson River near Newcomb, NY	0.91
			04256000	Independence River at Donnattsburg, NY	0.89
01314000	Hudson River at Gooley near Indian Lake, NY	10/01/1968 - 09/30/2010	01312000	Hudson River near Newcomb, NY	0.97
			04256000	Independence River at Donnattsburg, NY	0.88
01319000	East Branch Sacandaga River at Griffin, NY	06/01/1978 - 09/30/2010	04256000	Independence River at Donnattsburg, NY	0.88
			04278300	Northwest Bay Brook near Bolton Landing, NY	0.90
01329000	Batten Kill at Arlington, VT	07/01/1984 - 09/30/2010	01334000	Walloomsac River near North Bennington, VT	0.95
01329490	Battenkill below mill at Battenville, NY	10/01/1968 - 03/31/1998	01329000	Batten Kill at Arlington, VT	0.95
			01334000	Walloomsac River near North Bennington, VT	0.91
01330000	Glowegee Creek at West Milton, NY	07/01/1963 - 09/30/1990	01330500	Kayaderoseras Creek near West Milton, NY	0.96
01330500	Kayaderoseras Creek near West Milton, NY	04/01/1995 - 09/30/2010	01330000	Glowegee Creek at West Milton, NY	0.96
01332000	North Branch Hoosic River at North Adams, MA	10/01/1990 - 09/30/2010	01332500	Hoosic River near Williamstown, MA	0.96
01333500	Little Hoosic River at Petersburg, NY	10/01/1996 - 09/30/2010	01333000	Green River at Williamstown, MA	0.96
01349000	Otsquago Creek at Fort Plain, NY	10/01/1989 - 09/30/2010	01330000	Glowegee Creek at West Milton, NY	0.90
			01502500	Unadilla River at Rockdale, NY	0.89
01350120	Platter Kill at Gilboa, NY	10/01/1960 - 01/27/1975	01413500	East Branch Delaware River at Margaretville, NY	0.90
01350140	Mine Kill near North Blenheim, NY	10/01/1960 - 12/12/1974	01498500	Charlotte Creek at West Davenport, NY	0.95
01358500	Poesten Kill near Troy, NY	10/01/1968 - 09/30/2010	01333000	Green River at Williamstown, MA	0.91
			01333500	Little Hoosic River at Petersburg, NY	0.94
01359750	Moordener Kill at Castleton-on-Hudson, NY	04/01/1995 - 09/30/2010	01333000	Green River at Williamstown, MA	0.89
01361000	Kinderhook Creek at Rossman, NY	10/01/1968 - 09/30/2010	01333000	Green River at Williamstown, MA	0.91
01362200	Esopus Creek at Allaben, NY	10/01/1960 - 09/30/1963	014135000	East Branch Delaware River at Margaretville, NY	0.96
01365500	Chestnut Creek at Grahamsville, NY	04/01/1987 - 09/24/1998	01365000	Rondout Creek near Lowes Corners, NY	0.95
01366650	Sandburg Creek at Ellenville, NY	10/01/1977 - 09/30/2010	01365000	Rondout Creek near Lowes Corners, NY	0.92
01368500	Rutgers Creek at Gardnerville, NY	10/01/1968 - 09/30/2010	01372500	Wappinger Creek near Wappingers Falls, NY	0.90
01369000	Pochuck Creek near Pine Island, NY	10/01/1977 - 09/30/2010	01372500	Wappinger Creek near Wappingers Falls, NY	0.90
01369500	Quaker Creek at Florida, NY	10/01/1979 - 09/30/2010	01372500	Wappinger Creek near Wappingers Falls, NY	0.86
01372200	Wappinger Creek near Clinton Corners, NY	01/01/1976 - 09/30/2010	01372500	Wappinger Creek near Wappingers Falls, NY	0.99
01372300	Little Wappinger Creek at Salt Point, NY	01/01/1976 - 09/30/2010	01372500	Wappinger Creek near Wappingers Falls, NY	0.98
01372800	Fishkill Creek at Hopewell Junction, NY	01/01/1976 - 09/30/2010	01200000	Tenmile River near Gaylordsville, CT	0.91
			01372500	Wappinger Creek near Wappingers Falls, NY	0.88
01372850	Whortlekill Creek at Hopewell Junction, NY	10/01/1968 - 09/30/2010	01200000	Tenmile River near Gaylordsville, CT	0.83
			01372500	Wappinger Creek near Wappingers Falls, NY	0.81
01387400	Ramapo River at Ramapo, NY	10/01/1960 - 06/27/1979	01372500	Wappinger Creek near Wappingers Falls, NY	0.90
01387450	Mahwah River near Suffern, NY	10/01/1995 - 09/29/2005	01387400	Ramapo River at Ramapo, NY	0.95
01414000	Platte Kill at Dunraven, NY	10/01/1962 - 12/04/1996	01415000	Tremper Kill near Andes, NY	0.98
01415500	Terry Clove Kill near Pepacton, NY	10/01/1962 - 09/30/2010	01415000	Tremper Kill near Andes, NY	0.98
01418500	Beaver Kill at Craigie Clair, NY	10/01/1970 - 09/30/2010	01420500	Beaver Kill at Cooks Falls, NY	0.99

**Appendix 3-1.** Reference streamgages with index streamgage used for MOVE.3 (Vogel and Stedinger, 1985) record extension.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Part of record extended	U.S. Geological Survey streamgage(s) used as index to extend record		Correlation coefficient between log-transformed flow records
			Number	Name	
01419500	Willowemoc Creek near Livingston Manor, NY	10/01/1970 - 09/30/2010	01420500	Beaver Kill at Cooks Falls, NY	0.99
01420000	Little Beaver Kill near Livingston Manor, NY	10/01/1981 - 09/30/2010	01420500	Beaver Kill at Cooks Falls, NY	0.96
01421000	East Branch Delaware River at Fishs Eddy, NY	10/01/1960 - 09/30/2010	01413500	East Branch Delaware River at Margaretville, NY	0.97
01421900	West Branch Delaware River upstream from Delhi, NY	10/01/1970 - 12/04/1996	01423000	West Branch Delaware River at Walton, NY	0.99
01422500	Little Delaware River near Delhi, NY	10/01/1971 - 01/20/1997	01415000	Tremper Kill near Andes, NY	0.97
01423500	Dryden Brook near Granton, NY	07/01/1967 - 09/30/2010	01426500	West Branch Delaware River at Hale Eddy, NY	0.96
0142400103	Trout Creek near Trout Creek, NY	07/01/1967 - 12/04/1996	01415000	Tremper Kill near Andes, NY	0.94
01424500	Trout Creek near Cannonsville, NY	10/01/1963 - 09/30/2010	0142400103	Trout Creek near Trout Creek, NY	0.98
			01365000	Rondout Creek near Lowes Corners, NY	0.96
01426000	Oquaga Creek at Deposit, NY	10/01/1974 - 09/30/2010	01423000	West Branch Delaware River at Walton, NY	0.91
			0142400103	Trout Creek near Trout Creek, NY	0.93
01426500	West Branch Delaware River at Hale Eddy, NY	10/01/1960 - 09/30/2010	01423000	West Branch Delaware River at Walton, NY	0.99
01427500	Callicoon Creek at Callicoon, NY	10/01/1982 - 09/30/2010	01420500	Beaver Kill at Cooks Falls, NY	0.94
01428000	Tenmile River at Tusten, NY	10/01/1973 - 09/30/2010	01365500	Chestnut Creek at Grahamsville, NY	0.92
			01420500	Beaver Kill at Cooks Falls, NY	0.91
01434025	Biscuit Brook above Pigeon Brook at Frost Valley, NY	10/01/1960 - 06/07/1983	01365000	Rondout Creek near Lowes Corners, NY	0.92
			01435000	Neversink River near Claryville, NY	0.97
01437000	Neversink River at Oakland Valley, NY	10/01/1960 - 09/30/2010	01365000	Rondout Creek near Lowes Corners, NY	0.97
01496500	Oaks Creek at Index, NY	04/01/1995 - 09/30/2010	01503000	Susquehanna River at Conklin, NY	0.92
01498500	Charlotte Creek at West Davenport, NY	10/10/1975 - 09/30/2010	01423000	West Branch Delaware River at Walton, NY	0.96
01499000	Otego Creek near Oneonta, NY	10/01/1968 - 09/30/2010	01423000	West Branch Delaware River at Walton, NY	0.94
01501000	Unadilla Creek near New Berlin, NY	10/01/1968 - 09/30/2010	01502500	Unadilla River at Rockdale, NY	0.98
			01510000	Otselic River at Cincinnatus, NY	0.95
01502000	Butternut Creek at Morris, NY	04/01/1995 - 09/30/2010	01502500	Unadilla River at Rockdale, NY	0.97
			01510000	Otselic River at Cincinnatus, NY	0.94
01502500	Unadilla River at Rockdale, NY	04/01/1995 - 09/30/2000	01512500	Chenango River near Chenango Forks, NY	0.97
01505500	Canasawacta Creek near South Plymouth, NY	10/01/1975 - 09/30/2010	01510000	Otselic River at Cincinnatus, NY	0.96
01507000	Chenango River at Greene, NY	10/01/1970 - 09/30/2009	01512500	Chenango River near Chenango Forks, NY	0.99
01507500	Genegantslet Creek at Smithville Flats, NY	10/01/1970 - 09/30/2010	01512500	Chenango River near Chenango Forks, NY	0.96
01508000	Shackham Brook near Truxton, NY	10/01/1968 - 09/30/2010	01510000	Otselic River at Cincinnatus, NY	0.94
			04245200	Butternut Creek near Jamesville, NY	0.92
01510000	Otselic River at Cincinnatus, NY	10/01/1964 - 09/30/1969	01512500	Chenango River near Chenango Forks, NY	0.97
01510500	Otselic River near Upper Lisle, NY	10/01/1969 - 09/30/2010	01512500	Chenango River near Chenango Forks, NY	0.98
01513500	Susquehanna River at Vestal, NY	07/01/1967 - 09/30/2009	01503000	Susquehanna River at Conklin, NY	0.99
01514000	Owego Creek near Owego, NY	10/01/1978 - 09/30/2010	01512500	Chenango River near Chenango Forks, NY	0.95
01515000	Susquehanna River near Waverly, NY	04/01/1995 - 09/30/2000	01503000	Susquehanna River at Conklin, NY	0.98
01520500	Tioga River at Lindley, NY	04/01/1995 - 09/30/2009	01529500	Cohocton River near Campbell, NY	0.90
01527000	Cohocton River at Cohocton, NY	10/23/1981 - 09/30/2010	01529500	Cohocton River near Campbell, NY	0.96
01528000	Fivemile Creek near Kanona, NY	04/01/1995 - 09/30/2010	01529500	Cohocton River near Campbell, NY	0.96
01530500	Newtown Creek at Elmira, NY	08/01/1989 - 09/30/2010	04233000	Cayuga Inlet near Ithaca, NY	0.93

**Appendix 3-1.** Reference streamgages with index streamgage used for MOVE.3 (Vogel and Stedinger, 1985) record extension.

[CT, Connecticut; NY, New York; VT, Vermont; MA, Massachusetts; A, active; D, discontinued]

U.S. Geological Survey streamgage number	U.S. Geological Survey streamgage name	Part of record extended	U.S. Geological Survey streamgage(s) used as index to extend record		Correlation coefficient between log-transformed flow records
			Number	Name	
03013000	Conewango Creek at Waterboro, NY	10/01/1993 - 09/30/2010	03011020	Allegheny River at Salamanca, NY	0.91
04213500	Cattaraugus Creek at Gowanda, NY	04/01/1998 - 09/30/1999	04215500	Cazenovia Creek at Ebenezer, NY	0.93
04215000	Cayuga Creek near Lancaster, NY	10/01/1968 - 04/30/1974	04214500	Buffalo Creek at Gardenville, NY	0.97
04216418	Tonawanda Creek at Attica, NY	10/01/1960 - 09/30/1977	04215500	Cazenovia Creek at Ebenezer, NY	0.96
04217500	Tonawanda Creek near Alabama, NY	10/01/1989 - 09/30/2010	04214500	Buffalo Creek at Gardenville, NY	0.95
04218000	Tonawanda Creek at Rapids, NY	10/01/1965 - 09/12/1979	04217000	Tonawanda Creek at Batavia, NY	0.98
04221000	Genesee River at Wellsville, NY	10/01/1958 - 09/30/1972	04217000	Tonawanda Creek at Batavia, NY	0.94
04221500	Genesee River at Scio, NY	10/01/1972 - 09/30/2010	04221500	Genesee River at Scio, NY	1.00
04224775	Canaseraga Creek above Dansville, NY	10/01/1960 - 07/29/1974	04221000	Genesee River at Wellsville, NY	1.00
04225000	Canaseraga Creek near Dansville, NY	10/01/1968 - 06/30/1970 10/01/1976 - 09/30/2010	01529500	Cohocton River near Campbell, NY	0.92
04227000	Canaseraga Creek at Shakers Crossing, NY	10/01/1970 - 09/30/1974	04227000	Canaseraga Creek at Shakers Crossing, NY	0.96
04230380	Oatka Creek at Warsaw, NY	10/01/1960 - 13/31/1963	04227000	Canaseraga Creek at Shakers Crossing, NY	0.97
04232100	Sterling Creek at Sterling, NY	04/01/1995 - 09/30/2010	04225000	Canaseraga Creek near Dansville, NY	0.97
04240120	Ley Creek at Park Street, Syracuse, NY	10/01/1960 - 11/30/1972	04217000	Tonawanda Creek at Batavia, NY	0.93
04245000	Limestone Creek at Fayetteville, NY	10/01/1986 - 09/30/2010	04218000	Tonawanda Creek at Rapids, NY	0.88
04245200	Butternut Creek near Jamesville, NY	10/01/1999 - 09/30/2010	04243500	Oneida Creek at Oneida, NY	0.81
04250750	Sandy Creek near Adams, NY	04/01/1995 - 06/21/2002	04243500	Oneida Creek at Oneida, NY	0.95
04254500	Moose River at Mckeever, NY	10/01/1970 - 09/30/2010	04243500	Oneida Creek at Oneida, NY	0.94
04265000	Grass River at Pyrites, NY	10/01/1977-09/30/2010	04256000	Independence River at Donnattsburg, NY	0.82
04265100	Elm Creek near Hermon, NY	10/01/1968 - 09/30/2010	04256000	Independence River at Donnattsburg, NY	0.91
04268800	West Branch Saint Regis River near Parishville, NY	10/01/1968 - 05/31/1991	04268800	West Branch Saint Regis River near Parishville, NY	0.93
04269000	Saint Regis River at Brasher Center, NY	10/01/1996 - 09/30/1997	04269000	Saint Regis River at Brasher Center, NY	0.95
04270200	Little Salmon River at Bombay, NY	04/01/1995 - 04/25/2002	04250750	Sandy Creek near Adams, NY	0.89
04271815	Little Chazy River near Chazy, NY	10/01/1960 - 02/28/1990	04256000	Independence River at Donnattsburg, NY	0.84
04273700	Salmon River at South Plattsburgh, NY	10/01/1960 - 03/31/1965 10/01/1968 - 02/28/1990	04269000	Saint Regis River at Brasher Center, NY	0.97
04274000	West Branch Ausable River near Lake Placid, NY	10/01/1968 - 09/30/2010	04268800	West Branch Saint Regis River near Parishville, NY	0.97
04275000	East Branch Ausable River at Au Sable Forks, NY	10/01/1996 - 09/30/2010	04270200	Little Salmon River at Bombay, NY	0.86
04275500	Ausable River near Au Sable Forks, NY	10/01/1968 - 02/28/1990	04270200	Little Salmon River at Bombay, NY	0.86
04276500	Bouquet River at Willsboro, NY	10/01/1968 - 02/28/1990	04275000	East Branch Ausable River at Au Sable Forks, NY	0.96
04278300	Northwest Bay Brook near Bolton Landing, NY	10/01/1960 - 09/30/1965 10/01/1968 - 09/30/1971 10/01/1997 - 09/30/2010	04275500	Ausable River near Au Sable Forks, NY	0.96
			04275500	Ausable River near Au Sable Forks, NY	0.98
			04275000	East Branch Ausable River at Au Sable Forks, NY	0.98
			04275000	East Branch Ausable River at Au Sable Forks, NY	0.93
			01330500	Kayaderoseras Creek near West Milton, NY	0.85
			0142400103	Trout Creek near Trout Creek, NY	0.88

**Appendix 4-1.** Basin characteristics used in the development of flow-duration regression equations.

U.S. Geological Survey streamgage number	Drainage area (square miles)	Mean annual runoff, 1951-1980 (inches)	Percent hydrologic soils group A	Percent hydrologic soils group B	Mean May precipitation, 1971 - 2000 (inches)	Mean June precipitation, 1971 - 2000 (inches)	Mean July precipitation, 1971 - 2000 (inches)	Mean Summer precipitation, 1971 - 2000 (inches)	Maximum June Temperature, 1971 - 2000 (degrees Fahrenheit)	Slope, lower half of main channel (feet/ mile)	Percent of basin above 1,200 feet elevation	X location of basin centroid (meters)	Y location of basin centroid (meters)
01200000	203	22.7	1.50	40.4	4.43	4.11	4.52	13.0	77.0	6.18	6.47	620,065.83	4,628,603.10
01312000	190	27.6	2.21	7.00	3.87	4.10	4.28	12.9	71.0	13.1	100	569,297.76	4,874,963.60
01314000	418	27.6	5.36	7.62	3.89	4.03	4.12	12.6	70.9	11.1	100	560,665.40	4,862,108.00
01319000	113	27.3	51.2	1.14	4.41	4.14	4.30	12.7	71.5	20.1	100	569,732.65	4,825,311.20
01329000	150	31.2	4.63	37.4	5.09	5.03	5.26	15.5	72.3	3.34	62.2	656,878.42	4,776,149.40
01329490	396	25.1	6.10	26.1	4.59	4.51	4.67	13.9	74.1	8.42	40.0	645,859.66	4,780,286.70
01330500	84.3	19.9	17.3	53.5	4.27	4.13	3.85	12.1	76.0	17.6	10.8	586,469.49	4,772,546.00
01332000	41.1	33.1	1.44	34.3	4.84	4.91	4.76	14.6	71.5	48.8	84.6	657,531.03	4,736,594.80
01332500	126	30.7	1.32	29.2	4.80	4.73	4.79	14.4	72.6	18.9	71.2	654,578.48	4,724,264.80
01333000	42.7	27.5	4.31	15.6	4.73	4.56	4.63	14.0	73.1	42.0	67.5	644,597.87	4,722,115.50
01333500	55.7	23.1	4.46	2.41	4.47	4.42	4.33	13.4	73.7	35.2	67.5	635,831.65	4,728,908.80
01334000	116	29.1	2.24	37.1	4.63	4.90	4.86	14.5	72.5	60.1	59.4	650,415.53	4,750,605.10
01334500	511	27.0	2.92	22.8	4.52	4.58	4.58	13.8	73.5	8.98	54.8	646,053.29	4,737,276.00
01350000	237	27.6	2.54	3.25	4.42	4.23	4.00	12.1	71.8	21.5	99.7	560,452.76	4,678,527.30
01358500	90.8	18.5	4.28	2.43	4.39	4.35	4.15	13.0	74.9	55.9	53.2	621,968.80	4,731,038.10
01359750	31.6	16.1	15.3	3.31	4.09	4.06	3.87	12.0	76.9	32.4	0.000	611,258.68	4,715,526.00
01361000	327	18.0	11.6	6.30	4.51	4.13	4.17	12.9	75.6	11.9	26.3	623,320.07	4,704,382.50
01362200	63.6	33.6	3.56	2.24	4.83	4.56	4.45	13.0	70.5	48.4	97.9	546,424.88	4,661,193.00
01365000	38.5	33.6	0.937	3.11	5.22	4.90	4.79	14.2	70.8	60.4	95.5	547,746.41	4,640,626.40
01365500	21.2	26.4	4.35	12.1	4.85	4.62	4.63	13.7	74.0	122	81.0	536,249.71	4,632,899.00
01366650	52.9	24.6	8.91	5.82	4.83	4.61	4.24	13.0	76.3	50.5	46.1	544,075.62	4,614,525.10
01368500	59.2	20.2	3.78	2.59	4.58	4.44	4.08	12.6	78.0	2.73	3.50	538,124.11	4,580,048.90
01369000	98.0	23.2	6.71	17.6	4.66	4.58	4.42	13.2	77.5	9.68	15.8	549,322.73	4,563,499.00
01369500	9.69	19.1	1.30	1.43	4.47	4.33	4.21	12.7	78.7	57.1	0.000	554,762.47	4,574,864.30
01372200	93.8	20.0	11.7	34.3	4.37	3.98	4.36	12.5	77.9	16.6	0.67	608,001.17	4,634,970.50
01372300	32.8	19.6	4.92	42.4	4.58	3.93	4.41	12.4	78.4	13.3	0.000	600,141.74	4,639,488.00
01372500	183	19.4	9.54	38.2	4.47	3.97	4.40	12.4	78.3	6.23	0.34	603,550.71	4,632,191.30
01372800	57.2	21.4	5.46	29.8	4.46	4.25	4.58	13.2	77.9	11.6	2.16	608,753.49	4,608,085.10
01372850	6.53	20.3	31.8	27.4	4.58	4.05	4.58	12.8	78.8	16.1	0.000	601,706.10	4,607,838.30
01387450	12.4	27.9	1.55	42.5	5.17	4.60	4.78	14.0	77.9	16.2	1.12	576,703.56	4,557,789.40
01413500	163	27.7	3.00	3.60	4.42	4.28	4.33	12.4	71.1	27.9	100	536,889.28	4,672,466.50
01414500	25.1	29.3	1.39	3.32	4.52	4.47	4.51	12.9	70.6	88.2	100	528,809.73	4,658,732.70
01415000	33.1	24.3	1.38	4.2	4.34	4.39	4.33	12.6	72.4	41.2	100	516,475.21	4,670,484.80
01418500	82.1	32.9	2.31	3.64	4.87	4.82	4.69	13.7	70.3	35.0	100	523,108.01	4,651,445.30
01419500	62.6	32.8	1.66	3.74	5.06	4.94	4.74	14.3	70.9	34.9	100	525,119.26	4,643,305.20
01420000	20.4	30.3	1.50	3.38	5.06	4.74	4.79	13.9	72.2	87.4	100	520,676.62	4,633,938.00
01420500	242	30.6	1.85	4.78	4.89	4.79	4.67	13.8	71.4	17.5	99.9	519,247.00	4,644,800.90
01421900	135	24.5	5.05	6.43	4.21	4.18	4.05	11.9	72.7	8.40	100	520,902.74	4,689,732.50
01422500	49.7	26.1	0.617	4.12	4.31	4.34	4.28	12.4	72.1	33.5	100	518,288.31	4,679,984.30
01423000	333	24.6	3.89	6.04	4.30	4.29	4.17	12.3	72.9	8.09	100	510,183.02	4,681,946.60
01423500	8.04	24.1	0.64	2.08	4.47	4.35	4.45	12.8	73.4	105	100	481,436.45	4,666,407.40
0142400103	20.2	23.6	2.34	4.17	4.18	4.30	4.33	12.5	73.8	51.8	99.0	477,840.85	4,674,421.30
01426000	67.5	22.5	1.40	2.94	4.16	4.26	4.14	12.3	74.2	19.1	94.6	459,918.01	4,661,653.60
01427500	111	22.3	2.29	4.56	4.48	4.47	4.36	13.0	74.5	23.8	80.8	505,323.37	4,626,800.80
01428000	45.5	20.0	1.47	3.52	4.28	4.32	3.91	12.1	75.5	26.8	48.9	502,884.67	4,610,375.60
01435000	66.5	37.4	1.62	2.67	5.68	5.33	5.02	15.3	68.8	43.6	100	541,514.96	4,646,468.30

**Appendix 4-1.** Basin characteristics used in the development of flow-duration regression equations.

U.S. Geological Survey streamgage number	Drainage area (square miles)	Mean annual runoff, 1951-1980 (inches)	Percent hydrologic soils group A	Percent hydrologic soils group B	Mean May precipitation, 1971 - 2000 (inches)	Mean June precipitation, 1971 - 2000 (inches)	Mean July precipitation, 1971 - 2000 (inches)	Mean Summer precipitation, 1971 - 2000 (inches)	Maximum June Temperature, 1971 - 2000 (degrees Fahrenheit)	Slope, lower half of main channel (feet/ mile)	Percent of basin above 1,200 feet elevation	X location of basin centroid (meters)	Y location of basin centroid (meters)
01498500	165	21.8	4.41	8.16	4.03	4.15	3.99	11.8	73.6	9.59	99.8	520,575.20	4,704,170.90
01499000	108	21.4	7.74	14.9	3.93	4.24	3.96	12.0	75.0	8.26	91.1	492,385.74	4,715,853.80
01501000	198	22.2	5.87	32.5	3.99	4.22	4.01	12.1	74.4	2.74	90.5	479,066.74	4,741,910.50
01502000	59.8	22.8	6.14	12.7	3.93	4.19	3.94	11.9	74.7	16.3	95.6	485,859.71	4,721,026.80
01502500	519	22.0	6.84	21.8	3.94	4.17	3.95	11.9	74.7	3.59	88.8	477,954.26	4,726,489.90
01503000	2,230	21.7	5.27	15.6	3.98	4.25	4.01	12.0	74.5	2.06	89.3	480,790.65	4,699,858.60
01505500	58.4	23.4	0.994	8.16	3.94	4.21	3.87	11.7	73.7	28.5	98.1	446,891.23	4,719,550.20
01507000	595	21.2	6.18	13.8	3.87	4.20	3.79	11.6	74.7	2.84	83.9	452,386.37	4,721,371.00
01507500	81.6	22.4	0.892	4.52	3.82	4.17	3.87	11.7	74.0	29.7	94.8	435,206.43	4,704,598.50
01508000	3.14	24.3	2.22	1.85	3.89	4.50	3.88	12.0	72.3	152	100	417,105.54	4,737,447.80
01510500	218	23.9	4.88	7.87	3.84	4.16	3.85	11.6	73.9	7.59	90.3	431,392.58	4,720,489.50
01512500	1,490	22.4	5.88	12.0	3.79	4.20	3.78	11.5	74.3	6.01	84.9	433,981.90	4,717,589.70
01513500	3,950	21.8	5.64	13.6	3.89	4.22	3.91	11.8	74.5	1.95	86.0	460,163.47	4,704,740.30
01514000	187	19.5	4.39	10.2	3.58	4.25	3.74	11.5	74.3	12.3	79.2	399,338.68	4,685,679.50
01515000	4,780	21.3	5.60	12.5	3.84	4.21	3.86	11.7	74.6	1.74	83.1	449,216.24	4,698,458.20
01520500	768	14.8	3.14	2.63	3.32	4.58	3.51	11.3	74.7	7.52	95.3	313,061.18	4,638,430.00
01527000	51.5	14.9	18.5	13.4	3.32	4.30	3.44	11.1	73.7	5.34	100	294,116.31	4,715,584.90
01528000	67.0	15.8	10.6	4.62	3.40	4.53	3.55	11.4	74.4	12.5	99.6	312,589.70	4,708,395.90
01529500	467	14.7	12.2	6.08	3.22	4.29	3.45	10.9	74.9	9.47	90.9	307,109.97	4,699,298.60
01530500	78.0	15.2	12.5	8.36	3.34	4.19	3.57	11.2	75.8	19.4	67.8	355,526.56	4,672,158.60
03013000	289	25.2	5.44	21.6	3.61	4.68	4.27	13.2	74.9	1.56	100	166,690.76	4,689,145.60
04213500	436	24.7	9.63	25.3	3.56	4.69	4.10	12.8	74.6	14.5	94.9	203,763.72	4,707,192.80
04214500	142	21.5	14.5	13.1	3.29	4.52	3.49	11.9	75.0	13.6	59.2	213,601.60	4,736,264.40
04215500	136	23.4	6.41	15.4	3.44	4.52	3.83	12.4	74.8	14.2	59.4	203,198.14	4,731,783.60
04217000	170	17.4	4.13	23.0	3.33	4.33	3.66	11.7	75.4	3.11	59.2	235,214.19	4,746,877.20
04217500	230	17.1	3.30	28.4	3.30	4.23	3.56	11.5	75.9	10.0	43.7	233,978.68	4,752,019.60
04218000	348	17.6	2.53	28.0	3.24	4.11	3.44	11.2	76.3	7.40	29.9	228,594.30	4,757,219.10
04225000	157	14.0	12.9	12.7	3.21	4.23	3.46	11.2	74.6	51.4	91.6	275,177.04	4,709,088.00
04227000	340	12.8	8.49	18.6	3.15	4.06	3.38	10.9	75.6	6.93	63.8	271,049.21	4,716,198.80
04230500	205	14.4	2.03	44.5	3.24	4.09	3.50	11.3	76.0	14.7	36.1	251,437.78	4,750,533.00
04231000	131	11.6	0.796	54.4	3.15	3.83	3.20	10.5	77.3	4.57	2.80	251,884.24	4,771,823.50
04232100	45.9	20.1	12.6	37.0	3.20	3.66	3.30	10.5	76.7	12.1	0.000	367,775.50	4,786,087.30
04233000	35.3	14.9	13.4	7.89	3.45	4.11	3.64	11.3	75.5	54.7	52.8	371,376.08	4,688,597.80
04234000	126	20.1	11.6	7.25	3.51	4.34	3.79	11.6	74.2	11.0	72.4	392,723.66	4,711,386.90
04243500	114	20.7	1.37	65.7	3.82	4.15	3.79	11.8	75.6	15.7	37.2	451,714.67	4,761,594.60
04245000	85.1	22.8	2.38	60.8	3.68	4.09	3.82	11.5	74.6	28.7	51.1	423,796.77	4,752,099.60
04245200	32.5	21.2	2.82	63.1	3.54	4.40	3.80	11.7	73.7	27.4	72.1	413,299.51	4,746,899.10
04250750	135	27.6	6.45	39.0	3.88	3.84	4.00	12.1	73.4	21.9	29.4	431,075.18	4,857,496.70
04265000	333	24.4	23.7	8.12	3.60	3.84	4.28	12.5	73.3	19.7	63.4	506,260.49	4,909,674.70
04265100	32.7	20.7	4.92	7.22	3.51	3.59	4.01	11.9	74.3	3.12	0.000	483,586.29	4,913,180.40
04274000	115	25.3	3.91	15.1	3.62	4.32	4.41	13.4	70.7	15.5	100	582,803.15	4,899,033.00
04275000	198	21.7	11.0	7.82	3.97	4.28	4.37	13.4	71.7	19.6	76.5	596,958.40	4,899,584.00
04275500	445	20.8	13.5	11.0	3.70	4.14	4.24	12.9	71.9	53.9	80.2	592,992.13	4,906,186.80
04276500	271	15.7	13.6	16.2	3.66	3.87	3.76	11.9	73.9	10.3	41.9	614,061.86	4,900,640.90