

APPENDIX A
FLOOD FREQUENCY ESTIMATES OF GAGED SITES

Station no.	Recurrence interval, in years	Peak discharge values, in m ³ /s			Confidence Limits, in m ³ /s	
		Station value (Bulletin 17B)	Regression equation	Weighted value	0.05	0.95
16808120	2	15.7	15.3	16.1	19.3	13.3
16808120	5	25.2	15.9	25.6	32.7	21.2
16808120	10	33.5	32.4	33.2	45.1	26.8
16808120	25	46.9	40.4	44.7	65.6	34.6
16808120	50	59.2	53.5	54.6	84.9	41.0
16808120	100	73.9	61.9	65.8	108	47.9
16808120	250	97.9	70.1	82.9	146	58.0
16808120	500	120	83.8	97.7	181	66.4
16808300	2	6.30	4.51	6.13	6.85	5.49
16808300	5	7.91	4.59	7.89	9.15	7.05
16808300	10	8.76	8.90	8.97	10.7	7.91
16808300	25	9.64	10.8	10.3	12.7	8.90
16808300	50	10.2	13.9	11.2	14.2	9.57
16808300	100	10.7	15.7	12.1	15.7	10.2
16808300	250	11.2	17.3	13.2	17.7	11.0
16808300	500	11.6	20.1	14.1	19.2	11.6
16809600	2	29.9	21.8	29.4	32.9	26.2
16809600	5	40.6	22.6	40.5	46.9	35.9
16809600	10	47.2	46.9	47.8	57.1	41.9

16809600	25	55.1	58.7	57.2	70.9	49.1
16809600	50	60.7	78.2	64.3	81.8	54.3
16809600	100	66.0	90.7	71.4	93.0	59.4
16809600	250	72.7	103	80.9	109	66.1
16809600	500	77.6	123	88.2	121	71.2
16816000	2	77.5	27.7	75.5	87.8	64.8
16816000	5	119	29.0	118	144	101
16816000	10	149	60.4	151	192	126
16816000	25	178	76.2	198	266	160
16816000	50	217	102	237	331	187
16816000	100	248	120	279	406	216
16816000	250	280	137	342	520	256
16816000	500	323	165	393	619	289
16835000	2	52.0	26.7	50.7	55.7	46.1
16835000	5	58.8	28.3	58.7	67.2	53.6
16835000	10	61.8	58.7	63.3	74.9	57.3
16835000	25	64.5	74.3	68.6	84.4	61.3
16835000	50	66.1	100	72.2	91.2	63.9
16835000	100	67.3	117	75.6	97.8	66.2
16835000	250	68.5	134	79.8	106	69.1
16835000	500	69.3	163	82.9	113	71.1
16840000	2	20.4	15.0	20.3	25.0	16.4
16840000	5	37.1	15.7	37.1	48.8	29.7

16840000	10	51.3	31.9	51.4	71.9	40.1
16840000	25	73.1	39.9	73.7	111	55.0
16840000	50	92.3	52.9	93.4	149	67.5
16840000	100	114	61.3	116	195	81.3
16840000	250	148	69.5	151	271	102
16840000	500	177	83.2	182	342	119
16847000	2	61.1	37.9	61.0	67.6	55.0
16847000	5	90.1	39.7	90.0	103	80.6
16847000	10	111	84.0	111	130	98.1
16847000	25	140	106	140	170	121
16847000	50	163	144	164	204	139
16847000	100	188	169	189	240	157
16847000	250	222	193	224	294	183
16847000	500	250	234	253	338	203
16848100	2	31.5	26.3	31.2	36.7	26.5
16848100	5	52.6	27.4	52.4	64.7	44.1
16848100	10	68.8	57.1	69.3	89.3	57.0
16848100	25	91.6	71.8	93.8	128	74.7
16848100	50	110	96.1	115	162	88.9
16848100	100	130	112	137	202	104
16848100	250	159	127	171	263	126
16848100	500	183	153	199	316	143
16848500	2	33.7	22.1	34.2	39.5	29.5

16848500	5	56.0	23.0	56.4	67.9	48.3
16848500	10	75.2	47.5	74.8	93.9	62.6
16848500	25	105	59.6	103	136	83.1
16848500	50	133	79.5	127	176	100
16848500	100	165	92.3	155	223	119
16848500	250	216	105	198	300	147
16848500	500	262	126	236	370	171
16854500	2	63.1	51.7	65.5	75.9	56.3
16854500	5	106	55.0	108	131	92.6
16854500	10	146	117	145	183	121
16854500	25	216	150	203	272	163
16854500	50	284	207	255	358	199
16854500	100	369	243	316	464	240
16854500	250	517	281	414	643	303
16854500	500	660	345	501	812	357
16855000	2	76.4	54.4	74.3	97.1	56.8
16855000	5	134	58.0	133	191	101
16855000	10	177	124	181	282	134
16855000	25	238	159	252	435	178
16855000	50	286	218	313	579	213
16855000	100	337	258	380	753	250
16855000	250	409	299	481	1,030	303
16855000	500	466	368	567	1,290	347

16858000	2	82.2	73.8	81.2	89.3	73.8
16858000	5	108	78.6	107.6	121.7	97.3
16858000	10	124	171	124.6	145	111
16858000	25	142	219	145.6	174	128
16858000	50	155	303	161.1	197	140
16858000	100	167	359	176.3	220	151
16858000	250	182	418	196.4	251	166
16858000	500	193	516	211.7	275	177
16865000	2	117	68.5	119.4	135	106
16865000	5	185	72.8	187.9	219	165
16865000	10	246	157	244.2	295	210
16865000	25	342	202	329.2	418	275
16865000	50	432	278	403.5	531	329
16865000	100	538	330	488.2	665	389
16865000	250	712	383	619.3	882	478
16865000	500	871	472	733.8	1,080	554

Station no.	Recurrence interval, in years	Peak discharge values, in ft ³ /s			95-percent confidence interval, in ft ³ /s	
		Station value (Bulletin 17B)	Regression equation	Weighted value	Lower	Upper
16808120	2	553	539	569	683	471
16808120	5	889	562	903	1,150	748
16808120	10	1,180	1,140	1,170	1,590	947
16808120	25	1,660	1,430	1,580	2,320	1,220
16808120	50	2,090	1,890	1,930	3,000	1,450
16808120	100	2,610	2,190	2,320	3,820	1,690
16808120	250	3,460	2,480	2,930	5,160	2,050
16808120	500	4,230	2,960	3,450	6,400	2,340
16808300	2	223	159	216	242	194
16808300	5	280	162	279	323	249
16808300	10	309	314	317	379	279
16808300	25	340	382	363	450	314
16808300	50	360	489	395	503	338
16808300	100	376	554	427	555	361
16808300	250	395	612	467	625	389
16808300	500	408	711	497	678	409
16809600	2	1,060	771	1,040	1,160	927
16809600	5	1,430	800	1,430	1,660	1,270
16809600	10	1,670	1,650	1,690	2,020	1,480

16809600	25	1,950	2,070	2,020	2,510	1,730
16809600	50	2,140	2,760	2,270	2,890	1,920
16809600	100	2,330	3,200	2,520	3,280	2,100
16809600	250	2,570	3,630	2,860	3,830	2,330
16809600	500	2,740	4,360	3,120	4,270	2,510
16816000	2	2,740	977	2,660	3,100	2,290
16816000	5	4,210	1,020	4,180	5,080	3,560
16816000	10	5,250	2,130	5,340	6,780	4,460
16816000	25	6,290	2,690	7,000	9,400	5,660
16816000	50	7,680	3,620	8,370	11,700	6,610
16816000	100	8,760	4,220	9,870	14,300	7,620
16816000	250	9,870	4,820	12,100	18,400	9,040
16816000	500	11,400	5,830	13,900	21,900	10,200
16835000	2	1,840	943	1,790	1,970	1,630
16835000	5	2,080	998	2,070	2,370	1,890
16835000	10	2,180	2,070	2,240	2,650	2,020
16835000	25	2,280	2,620	2,420	2,980	2,160
16835000	50	2,330	3,530	2,550	3,220	2,260
16835000	100	2,380	4,140	2,670	3,460	2,340
16835000	250	2,420	4,740	2,820	3,760	2,440
16835000	500	2,450	5,750	2,930	3,980	2,510
16840000	2	719	531	716	884	579
16840000	5	1,310	556	1,310	1,720	1,050

16840000	10	1,810	1,130	1,820	2,540	1,420
16840000	25	2,580	1,410	2,600	3,930	1,940
16840000	50	3,260	1,870	3,300	5,260	2,380
16840000	100	4,030	2,160	4,100	6,890	2,870
16840000	250	5,210	2,450	5,340	9,570	3,590
16840000	500	6,250	2,940	6,430	12,100	4,200
16847000	2	2,160	1,340	2,150	2,390	1,940
16847000	5	3,180	1,400	3,180	3,620	2,850
16847000	10	3,930	2,970	3,930	4,600	3,460
16847000	25	4,950	3,760	4,960	6,010	4,270
16847000	50	5,760	5,080	5,780	7,190	4,900
16847000	100	6,620	5,950	6,660	8,470	5,550
16847000	250	7,850	6,820	7,900	10,400	6,460
16847000	500	8,840	8,280	8,920	11,900	7,180
16848100	2	1,110	929	1,100	1,290	934
16848100	5	1,860	967	1,850	2,280	1,560
16848100	10	2,430	2,020	2,450	3,150	2,010
16848100	25	3,240	2,540	3,310	4,510	2,640
16848100	50	3,890	3,390	4,040	5,730	3,140
16848100	100	4,600	3,950	4,840	7,120	3,670
16848100	250	5,610	4,500	6,030	9,280	4,440
16848100	500	6,440	5,420	7,030	11,200	5,060
16848500	2	1,190	780	1,210	1,400	1,040

16848500	5	1,980	811	1,990	2,400	1,710
16848500	10	2,650	1,680	2,640	3,320	2,210
16848500	25	3,720	2,110	3,620	4,820	2,930
16848500	50	4,680	2,810	4,490	6,210	3,540
16848500	100	5,820	3,260	5,470	7,880	4,210
16848500	250	7,620	3,700	7,000	10,600	5,200
16848500	500	9,250	4,450	8,330	13,100	6,050
16854500	2	2,230	1,830	2,310	2,680	1,990
16854500	5	3,740	1,940	3,820	4,620	3,270
16854500	10	5,160	4,140	5,120	6,470	4,280
16854500	25	7,610	5,300	7,160	9,620	5,760
16854500	50	10,000	7,260	9,000	12,700	7,040
16854500	100	13,000	8,570	11,200	16,400	8,480
16854500	250	18,300	9,920	14,600	22,700	10,700
16854500	500	23,300	12,200	17,700	28,700	12,600
16855000	2	2,700	1,920	2,630	3,430	2,010
16855000	5	4,720	2,050	4,690	6,750	3,580
16855000	10	6,270	4,380	6,380	9,960	4,720
16855000	25	8,400	5,610	8,890	15,400	6,270
16855000	50	10,100	7,700	11,000	20,500	7,510
16855000	100	11,900	9,110	13,400	26,600	8,830
16855000	250	14,400	10,600	17,000	36,500	10,700
16855000	500	16,500	13,000	20,000	45,600	12,200

16858000	2	2,900	2,610	2,870	3,150	2,610
16858000	5	3,810	2,780	3,800	4,300	3,440
16858000	10	4,360	6,020	4,400	5,100	3,930
16858000	25	5,010	7,750	5,140	6,150	4,520
16858000	50	5,460	10,700	5,690	6,950	4,930
16858000	100	5,890	12,700	6,230	7,750	5,330
16858000	250	6,430	14,700	6,940	8,850	5,850
16858000	500	6,820	18,200	7,470	9,700	6,240
16865000	2	4,120	2,420	4,220	4,760	3,720
16865000	5	6,550	2,570	6,640	7,740	5,830
16865000	10	8,680	5,560	8,620	10,400	7,420
16865000	25	12,100	7,140	11,600	14,800	9,700
16865000	50	15,200	9,830	14,300	18,700	11,600
16865000	100	19,000	11,600	17,200	23,500	13,700
16865000	250	25,100	13,500	21,900	31,100	16,900
16865000	500	30,700	16,700	25,900	38,100	19,600