

Peak Flow Analysis of Michigan USGS Gages

The following is a peak flow gage analysis of all USGS Michigan gages with at least 20 years of record. The analysis was performed using Peakfq.exe on December 19, 2005. Skew is 0.12, 0.081, and -0.17 for the upper peninsula, southwest lower peninsula (Galien, Black, St. Joe, Macatawa, Kalamazoo, and Grand), and the remainder of the lower peninsula respectively, based on the work of Croskey and Holtschlag. Generalized error used is 0.45.

This document was prepared to assist the Michigan Stream Team and the regional reference reach project. The results of the statistical analysis may not be the flows the MDEQ uses to evaluate permit applications for its regulatory programs. A minimum of 20 years of record may produce a sufficiently accurate estimate of the mean annual flood and more frequent events. However, the MDEQ typically regulates to the 1% chance flood (100-year). We may extend gages with relatively short periods of record by correlating their annual flows to gages with significantly longer periods of record. This usually does not alter the mean annual flood or more frequent events very much, but could significantly change the magnitude of larger floods.

Any flows taken from these tables and used as the basis for an MDEQ permit application should be verified by the MDEQ Land and Water Management Division's Hydrologic Studies Unit. See www.michigan.com/deqhydrology for more information.

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March 3, 2006
Revised September 23, 2008 to list gages in numerical order

Gages Analyzed

Upper Peninsula

4001000 Washington Creek at Windigo
4031000 Black River near Bessemer
4031500 Presque Isle River at Marenisco
4032000 Presque Isle River near Tula
4033000 Middle Branch Ontonagon River near Paulding
4035000 East Branch Ontonagon River near Mass
4037500 Cisco Branch Ontonagon River at Cisco Lake Outlet
4039500 South Branch Ontonagon River at Ewen
4040000 Ontonagon River near Rockland
4040500 Sturgeon River near Sidnaw
4041000 Perch River at State Hwy-28 near Sidnaw
4041500 Sturgeon River near Alston
4042500 Otter River near Elo
4043000 Sturgeon River near Arnheim
4043050 Trap Rock River near Lake Linden
4044813 Two Hearted River near Paradise
4045500 Tahquamenon River near Paradise
4045538 West Branch Waiska River at Tilson Road near Brimley
4046000 Black River near Garnet
4049500 Manistique River at Germfask
4055000 Manistique River at Cookson Bridge near Blaney
4056500 Manistique River near Manistique
4057000 Indian River near Manistique
4057510 Sturgeon River near Nahma Junction
4057800 Middle Branch Escanaba River at Humboldt
4057900 Black River at County Road near Republic
4058500 East Branch Escanaba River at Gwinn
4059000 Escanaba River at Cornell
4059400 Tenmile Creek at Perronville
4059500 Ford River near Hyde
4060500 Iron River at County Hwy-424 at Caspian
4060993 Brule River at US Highway 2 near Florence, WI
4061000 Brule River near Florence, WI
4062200 Peshekee River near Champion
4062300 Michigamme River at Republic
4063000 Menominee River near Florence, WI
4065300 West Branch Sturgeon River near Randville
4065500 Sturgeon River near Foster City
4066800 Menominee River at Koss
4067000 Menominee River near Koss
4067500 Menominee River near Mc Allister, WI

Lower Peninsula

4096400 St. Joseph River near Burlington
4096405 St. Joseph River at Burlington
4096515 South Branch Hog Creek near Allen
4096600 Coldwater River near Hodunk
4096900 Nottawa Creek near Athens
4097170 Portage River at W Avenue near Vicksburg
4097500 St. Joseph River at Three Rivers
4097540 Prairie River near Nottawa
4098500 Fawn River near White Pigeon
4099000 St. Joseph River at Mottville
4100500 Elkhart River at Goshen, IN
4101000 St. Joseph River at Elkhart, IN
4101500 St. Joseph River at Niles
4101800 Dowagiac River at Sumnerville
4102000 St. Joseph River at Berrien Springs

4102500 Paw Paw River at Riverside
4102700 South Branch Black River near Bangor
4103500 Kalamazoo River at Marshall
4105000 Battle Creek at Battle Creek
4105500 Kalamazoo River near Battle Creek
4105700 Augusta Creek near Augusta
4106000 Kalamazoo River at Comstock
4106180 Portage Creek at Portage
4106300 Portage Creek near Kalamazoo
4106320 West Fork Portage Creek near Oshtemo
4106400 West Fork Portage Creek at Kalamazoo
4106500 Portage Creek at Kalamazoo
4108500 Kalamazoo River near Fennville
4108600 Rabbit River near Hopkins
4108645 Rabbit River at State Highway 40 at Hamilton
4108800 Macatawa River at State Road near Zeeland
4108801 Macatawa River near Zeeland
4109000 Grand River at Jackson
4111000 Grand River near Eaton Rapids
4111500 Deer Creek near Dansville
4112000 Sloan Creek near Williamston
4112500 Red Cedar River at East Lansing
4112700 Sycamore Creek at Harper Road near Mason
4113000 Grand River at Lansing
4114000 Grand River at Portland
4114498 Looking Glass River near Eagle
4114500 Looking Glass River at Hinman Road near Eagle
4115000 Maple River at Maple Rapids
4116000 Grand River at Ionia
4116500 Flat River at Smyrna
4117000 Quaker Brook near Nashville
4117500 Thornapple River near Hastings
4118000 Thornapple River near Caledonia
4118500 Rogue River near Rockford
4119000 Grand River at Grand Rapids
4119160 Buck Creek at Wilson Avenue at Grandville
4121000 Muskegon River near Merritt
4121300 Clam River at Vogel Center
4121500 Muskegon River at Evert
4121900 Little Muskegon River near Morley
4122000 Muskegon River at Newaygo
4122100 Bear Creek near Muskegon
4122200 White River near Whitehall
4122230 North Branch Pentwater River near Pentwater
4122500 Pere Marquette River at Scottville
4123000 Big Sable River near Freesoil
4123500 Manistee River near Grayling
4124000 Manistee River near Sherman
4124500 East Branch Pine River near Tustin
4125460 Pine River at High School Bridge near Hoxeyville
4125500 Pine River near Hoxeyville
4126000 Manistee River near Manistee
4126200 Little Manistee River near Freesoil
4126600 Betsie River at US Highway 31 near Benzonia
4127000 Boardman River near Mayfield
4127800 Jordan River near East Jordan
4127918 Pine River near Rudyard
4127997 Sturgeon River at Wolverine

Gages Analyzed

Lower Peninsula (cont.)

4128000 Sturgeon River near Wolverine
4128500 Indian River at Indian River
4128990 Pigeon River at Sturgeon Valley Road near Vanderbilt
4129000 Pigeon River near Vanderbilt
4129500 Pigeon River at Afton
4130000 Cheboygan River near Cheboygan
4130500 Black River near Tower
4131500 Rainy River near Ocqueoc
4132000 Black River near Cheboygan
4132500 Thunder Bay River near Hillman
4133501 Thunder Bay River at Herron Road near Bolton
4134000 North Branch Thunder Bay River near Bolton
4135500 Au Sable River at Grayling
4135600 East Branch Au Sable River at Grayling
4135700 South Branch Au Sable River near Luzerne
4136500 Au Sable River at Mio
4138000 East Branch Au Gres River near Mclvor
4138500 Au Gres River at Cox Road near National City
4138600 Gamble Creek at Lupton
4138700 Bixby Creek near Rose City
4138800 Houghton Creek at Rose City
4138900 Wilkins Creek near Rose City
4139000 Houghton Creek near Lupton
4139500 Rifle River at "The Ranch" near Lupton
4140000 Prior Creek near Selkirk
4140200 Klacking Creek at Campbell Road near Selkirk
4140500 Rifle River at State Road at Selkirk
4141000 South Branch Shepards Creek near Selkirk
4141100 Shepards Creek near Selkirk
4142000 Rifle River near Sterling
4143500 North Branch Kawkawlin River near Kawkawlin
4143900 Shiawassee River at Linden
4144000 Shiawassee River at Byron
4144500 Shiawassee River at Owosso
4145000 Shiawassee River near Fergus
4146000 Farmers Creek near Lapeer
4146063 South Branch Flint River near Columbiaville
4147500 Flint River near Otisville
4148000 Flint River at Genesee
4148140 Kearsley Creek near Davison
4148200 Swartz Creek near Holly
4148300 Swartz Creek at Flint
4148440 Thread Creek near Flint
4148500 Flint River near Flint
4149000 Flint River near Fosters
4150000 South Branch Cass River near Cass City
4150500 Cass River at Cass City
4150800 Cass River at Wahjamega
4151000 Cass River at Vassar
4151500 Cass River at Frankenmuth
4152500 Tobacco River at Glidden Road at Beaverton
4153500 Salt River near North Bradley
4154000 Chippewa River near Mount Pleasant
4154500 Chippewa River near Midland
4155000 Pine River at Alma
4155500 Pine River near Midland
4156000 Tittabawassee River at Midland
4157000 Saginaw River at Saginaw
4158500 Pigeon River near Owendale
4159492 Black River near Jeddo
4159500 Black River near Fargo
4159900 Mill Creek near Avoca
4160350 Pine River at Gratiot Road near Rattle Run
4160570 North Branch Belle River at Imlay City
4160600 Belle River at Memphis
4160800 Sashabaw Creek near Drayton Plains
4160900 Clinton River near Drayton Plains
4161000 Clinton River at Auburn Hills
4161100 Galloway Creek near Auburn Heights
4161500 Paint Creek near Lake Orion
4161540 Paint Creek at Rochester
4161580 Stony Creek near Romeo
4161760 West Branch Stony Creek near Washington
4161800 Stony Creek near Washington
4162900 Big Beaver Creek near Warren
4163400 Plum Brook at Utica
4164000 Clinton River near Fraser
4164010 North Branch Clinton River at Almont
4164050 North Branch Clinton River at 33 Mile Road near Romeo
4164100 East Pond Creek at Romeo
4164150 North Branch Clinton River at 27 Mile Road near Meade
4164200 Coon Creek at North Avenue near Armada
4164250 Tupper Brook at Ray Center
4164300 East Branch Coon Creek at Armada
4164360 East Br. Coon Creek at 29-Mile Road near New Haven
4164400 Deer Creek at 25 1/2 Mile Road near Meade
4164450 McBride Drain at 24 Mile Road near Macomb
4164500 North Branch Clinton River near Mt. Clemens
4164600 Middle Br. Clinton River at Schoenherr Rd. near Macomb
4164800 Middle Branch Clinton River at Macomb
4165200 Gloede Ditch near Waldenburg
4165500 Clinton River at Moravian Drive at Mt. Clemens
4166000 River Rouge at Birmingham
4166100 River Rouge at Southfield
4166200 Evans Ditch at Southfield
4166300 Upper River Rouge at Farmington
4166500 River Rouge at Detroit
4167000 Middle River Rouge near Garden City
4168000 Lower River Rouge at Inkster
4168660 Frank And Poet Drain at King Road at Trenton
4169500 Huron River at Commerce
4170000 Huron River at Milford
4172000 Huron River near Hamburg
4172500 Portage River at Tiplady Road near Pinckney
4173000 Huron River near Dexter
4173250 Mill Creek near Lima Center
4173500 Mill Creek near Dexter
4174500 Huron River at Ann Arbor
4175600 River Raisin near Manchester
4175700 River Raisin near Tecumseh
4176000 River Raisin near Adrian
4176400 Saline River near Saline
4176500 River Raisin near Monroe

Upper Peninsula

04001000 Washington Creek at Windigo, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	71.5	52.0	89.8
0.9900 (1.01 years)	81.0	60.4	100.0
0.9500 (1.05 years)	113.2	90.3	134.1
0.9000 (1.11 years)	135.1	111.2	157.0
0.8000 (1.25 years)	166.9	142.0	190.6
0.5000 (2 years)	248.5	219.2	281.8
0.2000 (5 years)	366.8	321.1	431.3
0.1000 (10 years)	448.0	385.9	543.6
0.0400 (25 years)	553.2	465.9	697.3
0.0200 (50 years)	633.1	524.5	819.2
0.0100 (100 years)	714.1	582.6	946.7
0.0050 (200 years)	796.6	640.6	1080.0
0.0020 (500 years)	908.7	717.6	1267.0
0.6667 (1.50 years)	202.9		
0.4292 (2.33 years)	270.1		

04031000 Black River near Bessemer, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1156.0	805.0	1489.0
0.9900 (1.01 years)	1272.0	904.7	1616.0
0.9500 (1.05 years)	1679.0	1270.0	2059.0
0.9000 (1.11 years)	1971.0	1539.0	2374.0
0.8000 (1.25 years)	2419.0	1960.0	2863.0
0.5000 (2 years)	3710.0	3154.0	4350.0
0.2000 (5 years)	5970.0	5051.0	7347.0
0.1000 (10 years)	7808.0	6451.0	10080.0
0.0400 (25 years)	10560.0	8412.0	14530.0
0.0200 (50 years)	12940.0	10030.0	18650.0
0.0100 (100 years)	15620.0	11780.0	23550.0
0.0050 (200 years)	18660.0	13700.0	29360.0
0.0020 (500 years)	23290.0	16520.0	38690.0
0.6667 (1.50 years)	2965.5		
0.4292 (2.33 years)	4077.3		

Upper Peninsula

04031500

Presque Isle River at Marenisco, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	424.7	321.9	517.7
0.9900 (1.01 years)	467.0	361.0	562.0
0.9500 (1.05 years)	608.7	496.1	709.0
0.9000 (1.11 years)	703.5	588.6	807.1
0.8000 (1.25 years)	841.0	723.9	950.7
0.5000 (2 years)	1196.0	1064.0	1342.0
0.2000 (5 years)	1723.0	1525.0	2000.0
0.1000 (10 years)	2096.0	1825.0	2511.0
0.0400 (25 years)	2595.0	2207.0	3235.0
0.0200 (50 years)	2986.0	2495.0	3828.0
0.0100 (100 years)	3393.0	2788.0	4466.0
0.0050 (200 years)	3818.0	3087.0	5154.0
0.0020 (500 years)	4413.0	3496.0	6148.0
0.6667 (1.50 years)	997.3		
0.4292 (2.33 years)	1289.5		

04032000

Presque Isle River near Tula, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	880.4	679.5	1058.0
0.9900 (1.01 years)	977.5	771.5	1157.0
0.9500 (1.05 years)	1291.0	1078.0	1475.0
0.9000 (1.11 years)	1491.0	1278.0	1677.0
0.8000 (1.25 years)	1767.0	1557.0	1960.0
0.5000 (2 years)	2415.0	2189.0	2666.0
0.2000 (5 years)	3248.0	2927.0	3690.0
0.1000 (10 years)	3768.0	3354.0	4383.0
0.0400 (25 years)	4395.0	3848.0	5258.0
0.0200 (50 years)	4841.0	4189.0	5903.0
0.0100 (100 years)	5272.0	4513.0	6541.0
0.0050 (200 years)	5693.0	4824.0	7177.0
0.0020 (500 years)	6236.0	5219.0	8015.0
0.6667 (1.50 years)	2062.0		
0.4292 (2.33 years)	2576.4		

Upper Peninsula

04033000

Middle Branch Ontonagon River near Paulding, MI

Number of peaks in record: 57

Number of peaks in analysis: 57

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	284.4	227.3	337.1
0.9900 (1.01 years)	316.0	257.0	370.1
0.9500 (1.05 years)	421.5	358.4	478.9
0.9000 (1.11 years)	491.5	427.0	550.7
0.8000 (1.25 years)	592.0	526.0	654.6
0.5000 (2 years)	845.3	769.9	928.0
0.2000 (5 years)	1207.0	1092.0	1359.0
0.1000 (10 years)	1455.0	1298.0	1674.0
0.0400 (25 years)	1775.0	1555.0	2101.0
0.0200 (50 years)	2018.0	1745.0	2437.0
0.0100 (100 years)	2265.0	1934.0	2787.0
0.0050 (200 years)	2518.0	2124.0	3152.0
0.0020 (500 years)	2863.0	2379.0	3661.0
0.6667 (1.50 years)	704.5		
0.4292 (2.33 years)	911.5		

04035000

East Branch Ontonagon River near Mass, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1053.0	823.6	1252.0
0.9900 (1.01 years)	1163.0	929.3	1363.0
0.9500 (1.05 years)	1512.0	1276.0	1713.0
0.9000 (1.11 years)	1730.0	1497.0	1932.0
0.8000 (1.25 years)	2028.0	1801.0	2234.0
0.5000 (2 years)	2710.0	2472.0	2973.0
0.2000 (5 years)	3557.0	3226.0	4009.0
0.1000 (10 years)	4072.0	3652.0	4691.0
0.0400 (25 years)	4680.0	4135.0	5532.0
0.0200 (50 years)	5105.0	4464.0	6141.0
0.0100 (100 years)	5511.0	4771.0	6735.0
0.0050 (200 years)	5901.0	5063.0	7317.0
0.0020 (500 years)	6399.0	5429.0	8074.0
0.6667 (1.50 years)	2341.2		
0.4292 (2.33 years)	2876.6		

Upper Peninsula

04037500

Cisco Branch Ontonagon River at Cisco Lake Outlet, MI

Number of peaks in record: 60

Number of peaks in analysis: 52

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	113.0	100.9	122.9
0.9900 (1.01 years)	119.4	107.7	129.0
0.9500 (1.05 years)	138.4	128.0	147.1
0.9000 (1.11 years)	149.4	139.7	157.6
0.8000 (1.25 years)	163.4	154.5	171.2
0.5000 (2 years)	192.6	184.3	201.3
0.2000 (5 years)	224.9	214.5	237.9
0.1000 (10 years)	243.0	230.5	259.6
0.0400 (25 years)	263.2	247.8	284.6
0.0200 (50 years)	276.8	259.2	301.6
0.0100 (100 years)	289.3	269.5	317.5
0.0050 (200 years)	300.9	279.1	332.6
0.0020 (500 years)	315.4	290.9	351.4
0.6667 (1.50 years)	177.2		
0.4292 (2.33 years)	199.3		

04039500

South Branch Ontonagon River at Ewen, MI

Number of peaks in record: 45

Number of peaks in analysis: 44

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1327.0	1021.0	1606.0
0.9900 (1.01 years)	1465.0	1150.0	1752.0
0.9500 (1.05 years)	1932.0	1593.0	2237.0
0.9000 (1.11 years)	2245.0	1898.0	2561.0
0.8000 (1.25 years)	2701.0	2345.0	3037.0
0.5000 (2 years)	3878.0	3473.0	4329.0
0.2000 (5 years)	5632.0	5010.0	6483.0
0.1000 (10 years)	6876.0	6021.0	8146.0
0.0400 (25 years)	8536.0	7309.0	10490.0
0.0200 (50 years)	9835.0	8283.0	12400.0
0.0100 (100 years)	11180.0	9271.0	14450.0
0.0050 (200 years)	12600.0	10280.0	16650.0
0.0020 (500 years)	14570.0	11660.0	19810.0
0.6667 (1.50 years)	3218.9		
0.4292 (2.33 years)	4190.9		

Upper Peninsula

04040000

Ontonagon River near Rockland, MI

Number of peaks in record: 63

Number of peaks in analysis: 55

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	5430.0	4450.0	6314.0
0.9900 (1.01 years)	5920.0	4921.0	6816.0
0.9500 (1.05 years)	7529.0	6499.0	8451.0
0.9000 (1.11 years)	8580.0	7546.0	9517.0
0.8000 (1.25 years)	10080.0	9041.0	11050.0
0.5000 (2 years)	13810.0	12680.0	15040.0
0.2000 (5 years)	19110.0	17440.0	21300.0
0.1000 (10 years)	22750.0	20490.0	25900.0
0.0400 (25 years)	27470.0	24310.0	32140.0
0.0200 (50 years)	31080.0	27140.0	37090.0
0.0100 (100 years)	34770.0	29980.0	42260.0
0.0050 (200 years)	38570.0	32860.0	47700.0
0.0020 (500 years)	43780.0	36740.0	55350.0
0.6667 (1.50 years)	11741.2		
0.4292 (2.33 years)	14774.2		

04040500

Sturgeon River near Sidnaw, MI

Number of peaks in record: 65

Number of peaks in analysis: 65

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	706.8	574.9	828.7
0.9900 (1.01 years)	791.4	654.9	916.6
0.9500 (1.05 years)	1071.0	925.6	1203.0
0.9000 (1.11 years)	1253.0	1106.0	1389.0
0.8000 (1.25 years)	1511.0	1361.0	1653.0
0.5000 (2 years)	2136.0	1966.0	2322.0
0.2000 (5 years)	2978.0	2721.0	3307.0
0.1000 (10 years)	3523.0	3183.0	3986.0
0.0400 (25 years)	4197.0	3735.0	4858.0
0.0200 (50 years)	4689.0	4128.0	5513.0
0.0100 (100 years)	5173.0	4508.0	6169.0
0.0050 (200 years)	5652.0	4880.0	6830.0
0.0020 (500 years)	6283.0	5362.0	7716.0
0.6667 (1.50 years)	1792.1		
0.4292 (2.33 years)	2295.5		

Upper Peninsula

04041000

Perch River at State Hwy-28 near Sidnaw, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.8000 (1.25 years)	319.1	278.9	356.2
0.5000 (2 years)	437.4	394.0	485.2
0.2000 (5 years)	607.5	544.3	694.6
0.1000 (10 years)	725.2	640.3	852.9
0.0400 (25 years)	879.7	760.3	1072.0
0.0200 (50 years)	998.7	849.7	1249.0
0.0100 (100 years)	1121.0	939.5	1437.0
0.0050 (200 years)	1248.0	1031.0	1636.0
0.0020 (500 years)	1424.0	1154.0	1920.0
0.6667 (1.50 years)	371.7		
0.4292 (2.33 years)	468.1		

04041500

Sturgeon River near Alston, MI

Number of peaks in record: 73

Number of peaks in analysis: 65

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1359.0	1145.0	1551.0
0.9900 (1.01 years)	1490.0	1273.0	1683.0
0.9500 (1.05 years)	1907.0	1689.0	2101.0
0.9000 (1.11 years)	2170.0	1954.0	2365.0
0.8000 (1.25 years)	2533.0	2320.0	2731.0
0.5000 (2 years)	3381.0	3153.0	3626.0
0.2000 (5 years)	4475.0	4150.0	4886.0
0.1000 (10 years)	5164.0	4742.0	5730.0
0.0400 (25 years)	6001.0	5439.0	6790.0
0.0200 (50 years)	6604.0	5930.0	7572.0
0.0100 (100 years)	7191.0	6401.0	8348.0
0.0050 (200 years)	7768.0	6858.0	9123.0
0.0020 (500 years)	8521.0	7447.0	10150.0
0.6667 (1.50 years)	2919.4		
0.4292 (2.33 years)	3591.3		

Upper Peninsula

04042500

Otter River near Elo, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1028.0	795.9	1232.0
0.9900 (1.01 years)	1138.0	900.7	1345.0
0.9500 (1.05 years)	1492.0	1248.0	1702.0
0.9000 (1.11 years)	1716.0	1474.0	1927.0
0.8000 (1.25 years)	2024.0	1786.0	2243.0
0.5000 (2 years)	2745.0	2491.0	3027.0
0.2000 (5 years)	3664.0	3306.0	4158.0
0.1000 (10 years)	4236.0	3776.0	4920.0
0.0400 (25 years)	4923.0	4317.0	5880.0
0.0200 (50 years)	5411.0	4691.0	6586.0
0.0100 (100 years)	5881.0	5045.0	7284.0
0.0050 (200 years)	6340.0	5383.0	7977.0
0.0020 (500 years)	6931.0	5813.0	8891.0
0.6667 (1.50 years)	2353.2		
0.4292 (2.33 years)	2923.4		

04043000

Sturgeon River near Arnheim, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2206.0	1631.0	2720.0
0.9900 (1.01 years)	2408.0	1817.0	2932.0
0.9500 (1.05 years)	3089.0	2463.0	3642.0
0.9000 (1.11 years)	3549.0	2910.0	4119.0
0.8000 (1.25 years)	4221.0	3571.0	4825.0
0.5000 (2 years)	5983.0	5262.0	6794.0
0.2000 (5 years)	8680.0	7597.0	10240.0
0.1000 (10 years)	10640.0	9149.0	13030.0
0.0400 (25 years)	13320.0	11150.0	17100.0
0.0200 (50 years)	15460.0	12690.0	20520.0
0.0100 (100 years)	17730.0	14260.0	24300.0
0.0050 (200 years)	20140.0	15900.0	28460.0
0.0020 (500 years)	23570.0	18160.0	34610.0
0.6667 (1.50 years)	4992.6		
0.4292 (2.33 years)	6454.4		

Upper Peninsula

04043050

Trap Rock River near Lake Linden, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	251.9	192.3	304.8
0.9900 (1.01 years)	280.3	219.1	334.4
0.9500 (1.05 years)	373.3	309.1	429.3
0.9000 (1.11 years)	433.1	368.6	490.2
0.8000 (1.25 years)	516.8	452.3	576.4
0.5000 (2 years)	716.7	646.4	795.1
0.2000 (5 years)	980.1	878.5	1121.0
0.1000 (10 years)	1148.0	1016.0	1346.0
0.0400 (25 years)	1353.0	1176.0	1635.0
0.0200 (50 years)	1502.0	1289.0	1852.0
0.0100 (100 years)	1647.0	1397.0	2069.0
0.0050 (200 years)	1789.0	1501.0	2288.0
0.0020 (500 years)	1976.0	1635.0	2580.0
0.6667 (1.50 years)	607.3		
0.4292 (2.33 years)	767.1		

04044813

Two Hearted River near Paradise, MI

Number of peaks in record: 32

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	589.0	447.9	711.8
0.9900 (1.01 years)	634.3	490.9	758.5
0.9500 (1.05 years)	785.5	637.8	913.4
0.9000 (1.11 years)	886.5	738.0	1017.0
0.8000 (1.25 years)	1033.0	884.5	1169.0
0.5000 (2 years)	1414.0	1255.0	1590.0
0.2000 (5 years)	1990.0	1759.0	2320.0
0.1000 (10 years)	2406.0	2092.0	2905.0
0.0400 (25 years)	2973.0	2520.0	3757.0
0.0200 (50 years)	3426.0	2847.0	4473.0
0.0100 (100 years)	3904.0	3184.0	5260.0
0.0050 (200 years)	4413.0	3532.0	6127.0
0.0020 (500 years)	5137.0	4015.0	7409.0
0.6667 (1.50 years)	1200.5		
0.4292 (2.33 years)	1514.3		

Upper Peninsula

04045500

Tahquamenon River near Paradise, MI

Number of peaks in record: 51

Number of peaks in analysis: 51

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2046.0	1744.0	2305.0
0.9900 (1.01 years)	2213.0	1912.0	2468.0
0.9500 (1.05 years)	2722.0	2436.0	2966.0
0.9000 (1.11 years)	3028.0	2754.0	3267.0
0.8000 (1.25 years)	3434.0	3175.0	3669.0
0.5000 (2 years)	4322.0	4063.0	4600.0
0.2000 (5 years)	5366.0	5021.0	5808.0
0.1000 (10 years)	5978.0	5548.0	6561.0
0.0400 (25 years)	6680.0	6135.0	7456.0
0.0200 (50 years)	7162.0	6529.0	8085.0
0.0100 (100 years)	7615.0	6894.0	8685.0
0.0050 (200 years)	8044.0	7236.0	9262.0
0.0020 (500 years)	8585.0	7663.0	9998.0
0.6667 (1.50 years)	3848.3		
0.4292 (2.33 years)	4532.0		

04045538

West Branch Waiska River at Tilson Road near Brimley

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	182.6	130.9	229.6
0.9900 (1.01 years)	204.1	150.2	252.5
0.9500 (1.05 years)	276.4	217.8	328.2
0.9000 (1.11 years)	324.6	264.4	378.5
0.8000 (1.25 years)	394.3	332.6	452.0
0.5000 (2 years)	571.0	501.2	650.6
0.2000 (5 years)	825.2	719.8	978.4
0.1000 (10 years)	999.5	857.3	1227.0
0.0400 (25 years)	1225.0	1026.0	1569.0
0.0200 (50 years)	1397.0	1150.0	1842.0
0.0100 (100 years)	1572.0	1273.0	2129.0
0.0050 (200 years)	1751.0	1396.0	2433.0
0.0020 (500 years)	1994.0	1559.0	2859.0
0.6667 (1.50 years)	472.6		
0.4292 (2.33 years)	617.4		

Upper Peninsula

04046000

Black River near Garnet, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.8000 (1.25 years)	167.9	149.0	185.7
0.5000 (2 years)	231.0	210.2	253.4
0.2000 (5 years)	331.6	300.2	372.8
0.1000 (10 years)	407.6	363.5	470.5
0.0400 (25 years)	515.1	448.8	616.0
0.0200 (50 years)	603.7	516.8	741.1
0.0100 (100 years)	700.0	588.9	881.3
0.0050 (200 years)	805.0	665.8	1039.0
0.0020 (500 years)	959.0	776.0	1277.0
0.6667 (1.50 years)	195.3		
0.4292 (2.33 years)	248.0		

04049500

Manistique River at Germfask, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	741.6	651.1	816.1
0.9900 (1.01 years)	777.4	688.5	850.6
0.9500 (1.05 years)	888.4	805.7	957.4
0.9000 (1.11 years)	956.7	878.1	1024.0
0.8000 (1.25 years)	1049.0	975.7	1115.0
0.5000 (2 years)	1263.0	1193.0	1336.0
0.2000 (5 years)	1537.0	1447.0	1652.0
0.1000 (10 years)	1711.0	1598.0	1867.0
0.0400 (25 years)	1925.0	1776.0	2142.0
0.0200 (50 years)	2082.0	1903.0	2349.0
0.0100 (100 years)	2236.0	2026.0	2558.0
0.0050 (200 years)	2390.0	2147.0	2769.0
0.0020 (500 years)	2595.0	2306.0	3055.0
0.6667 (1.50 years)	1147.2		
0.4292 (2.33 years)	1314.4		

Upper Peninsula

04055000

Manistique River at Cookson Bridge near Blaney

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1697.0	1385.0	1968.0
0.9900 (1.01 years)	1822.0	1508.0	2094.0
0.9500 (1.05 years)	2228.0	1914.0	2500.0
0.9000 (1.11 years)	2490.0	2180.0	2763.0
0.8000 (1.25 years)	2860.0	2555.0	3139.0
0.5000 (2 years)	3772.0	3455.0	4116.0
0.2000 (5 years)	5055.0	4608.0	5653.0
0.1000 (10 years)	5928.0	5335.0	6789.0
0.0400 (25 years)	7062.0	6238.0	8338.0
0.0200 (50 years)	7928.0	6907.0	9567.0
0.0100 (100 years)	8814.0	7575.0	10860.0
0.0050 (200 years)	9727.0	8251.0	12220.0
0.0020 (500 years)	10980.0	9163.0	14150.0
0.6667 (1.50 years)	3268.6		
0.4292 (2.33 years)	4005.2		

04056500

Manistique River near Manistique, MI

Number of peaks in record: 67

Number of peaks in analysis: 67

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2676.0	2246.0	3066.0
0.9900 (1.01 years)	2931.0	2494.0	3326.0
0.9500 (1.05 years)	3759.0	3311.0	4162.0
0.9000 (1.11 years)	4291.0	3844.0	4698.0
0.8000 (1.25 years)	5036.0	4591.0	5454.0
0.5000 (2 years)	6837.0	6351.0	7360.0
0.2000 (5 years)	9275.0	8564.0	10170.0
0.1000 (10 years)	10870.0	9934.0	12140.0
0.0400 (25 years)	12880.0	11600.0	14700.0
0.0200 (50 years)	14370.0	12800.0	16640.0
0.0100 (100 years)	15850.0	13980.0	18620.0
0.0050 (200 years)	17350.0	15150.0	20650.0
0.0020 (500 years)	19340.0	16690.0	23400.0
0.6667 (1.50 years)	5848.2		
0.4292 (2.33 years)	7293.5		

Upper Peninsula

04057000

Indian River near Manistique, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	439.8	380.7	489.4
0.9900 (1.01 years)	460.3	401.8	509.5
0.9500 (1.05 years)	526.7	470.7	574.4
0.9000 (1.11 years)	569.5	515.3	616.4
0.8000 (1.25 years)	629.7	577.9	676.3
0.5000 (2 years)	777.8	727.0	831.1
0.2000 (5 years)	985.6	918.3	1073.0
0.1000 (10 years)	1127.0	1039.0	1251.0
0.0400 (25 years)	1312.0	1190.0	1493.0
0.0200 (50 years)	1453.0	1303.0	1685.0
0.0100 (100 years)	1599.0	1416.0	1887.0
0.0050 (200 years)	1749.0	1531.0	2101.0
0.0020 (500 years)	1957.0	1687.0	2403.0
0.6667 (1.50 years)	696.2		
0.4292 (2.33 years)	815.0		

04057510

Sturgeon River near Nahma Junction, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	700.9	608.5	778.6
0.9000 (1.11 years)	778.8	689.3	855.5
0.8000 (1.25 years)	884.8	799.1	961.7
0.5000 (2 years)	1129.0	1044.0	1222.0
0.2000 (5 years)	1442.0	1327.0	1596.0
0.1000 (10 years)	1638.0	1491.0	1851.0
0.0400 (25 years)	1877.0	1684.0	2175.0
0.0200 (50 years)	2049.0	1818.0	2416.0
0.0100 (100 years)	2218.0	1948.0	2658.0
0.0050 (200 years)	2385.0	2074.0	2902.0
0.0020 (500 years)	2603.0	2236.0	3229.0
0.6667 (1.50 years)	996.9		
0.4292 (2.33 years)	1189.3		

Upper Peninsula

04057800

Middle Branch Escanaba River at Humboldt, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	201.1	152.1	246.9
0.9900 (1.01 years)	223.8	172.7	271.1
0.9500 (1.05 years)	301.3	245.2	352.8
0.9000 (1.11 years)	354.4	296.1	408.3
0.8000 (1.25 years)	432.7	371.9	490.8
0.5000 (2 years)	640.5	569.0	720.7
0.2000 (5 years)	961.0	847.5	1117.0
0.1000 (10 years)	1194.0	1036.0	1432.0
0.0400 (25 years)	1512.0	1280.0	1886.0
0.0200 (50 years)	1766.0	1468.0	2264.0
0.0100 (100 years)	2032.0	1660.0	2675.0
0.0050 (200 years)	2315.0	1860.0	3124.0
0.0020 (500 years)	2715.0	2136.0	3779.0
0.6667 (1.50 years)	523.4		
0.4292 (2.33 years)	696.8		

04057900

Black River at County Road near Republic, MI

Number of peaks in record: 29

Number of peaks in analysis: 29

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	114.9	83.1	143.5
0.9900 (1.01 years)	124.9	92.1	154.0
0.9500 (1.05 years)	158.9	124.0	189.7
0.9000 (1.11 years)	182.2	146.5	214.2
0.8000 (1.25 years)	216.8	180.2	250.9
0.5000 (2 years)	309.9	269.1	356.1
0.2000 (5 years)	458.5	396.6	550.3
0.1000 (10 years)	570.6	483.8	714.2
0.0400 (25 years)	728.2	599.0	963.2
0.0200 (50 years)	857.7	689.4	1180.0
0.0100 (100 years)	997.7	783.9	1426.0
0.0050 (200 years)	1150.0	883.6	1705.0
0.0020 (500 years)	1371.0	1025.0	2129.0
0.6667 (1.50 years)	257.2		
0.4292 (2.33 years)	335.2		

Upper Peninsula

04058500

East Branch Escanaba River at Gwinn, MI

Number of peaks in record: 27

Number of peaks in analysis: 27

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	374.4	271.2	465.2
0.9900 (1.01 years)	404.5	298.9	496.8
0.9500 (1.05 years)	506.6	395.8	603.3
0.9000 (1.11 years)	576.2	463.5	675.9
0.8000 (1.25 years)	679.0	564.6	784.5
0.5000 (2 years)	954.2	829.1	1095.0
0.2000 (5 years)	1389.0	1204.0	1667.0
0.1000 (10 years)	1716.0	1457.0	2148.0
0.0400 (25 years)	2173.0	1791.0	2877.0
0.0200 (50 years)	2546.0	2051.0	3512.0
0.0100 (100 years)	2950.0	2322.0	4230.0
0.0050 (200 years)	3387.0	2608.0	5042.0
0.0020 (500 years)	4023.0	3011.0	6280.0
0.6667 (1.50 years)	798.7		
0.4292 (2.33 years)	1028.4		

04059000

Escanaba River at Cornell, MI

Number of peaks in record: 59

Number of peaks in analysis: 55

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2018.0	1623.0	2378.0
0.9900 (1.01 years)	2259.0	1851.0	2626.0
0.9500 (1.05 years)	3043.0	2616.0	3424.0
0.9000 (1.11 years)	3545.0	3116.0	3933.0
0.8000 (1.25 years)	4243.0	3814.0	4645.0
0.5000 (2 years)	5883.0	5408.0	6406.0
0.2000 (5 years)	7987.0	7291.0	8895.0
0.1000 (10 years)	9294.0	8392.0	10550.0
0.0400 (25 years)	10860.0	9664.0	12600.0
0.0200 (50 years)	11960.0	10540.0	14090.0
0.0100 (100 years)	13030.0	11370.0	15550.0
0.0050 (200 years)	14060.0	12170.0	16990.0
0.0020 (500 years)	15380.0	13180.0	18870.0
0.6667 (1.50 years)	4990.0		
0.4292 (2.33 years)	6293.5		

Upper Peninsula

04059400

Tenmile Creek at Perronville, MI

Number of peaks in record: 34

Number of peaks in analysis: 34

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.5000 (2 years)	367.4	333.3	404.1
0.2000 (5 years)	494.5	447.4	559.4
0.1000 (10 years)	587.0	523.2	683.8
0.0400 (25 years)	713.6	621.6	865.0
0.0200 (50 years)	815.3	697.6	1018.0
0.0100 (100 years)	923.4	776.2	1186.0
0.0050 (200 years)	1039.0	858.4	1372.0
0.0020 (500 years)	1205.0	973.4	1648.0
0.6667 (1.50 years)	320.6		
0.4292 (2.33 years)	389.3		

04059500

Ford River near Hyde, MI

Number of peaks in record: 50

Number of peaks in analysis: 50

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1079.0	869.7	1266.0
0.9900 (1.01 years)	1193.0	979.2	1383.0
0.9500 (1.05 years)	1562.0	1342.0	1757.0
0.9000 (1.11 years)	1797.0	1578.0	1994.0
0.8000 (1.25 years)	2124.0	1906.0	2327.0
0.5000 (2 years)	2897.0	2660.0	3156.0
0.2000 (5 years)	3905.0	3564.0	4355.0
0.1000 (10 years)	4544.0	4100.0	5170.0
0.0400 (25 years)	5323.0	4730.0	6204.0
0.0200 (50 years)	5884.0	5172.0	6973.0
0.0100 (100 years)	6431.0	5596.0	7738.0
0.0050 (200 years)	6970.0	6006.0	8505.0
0.0020 (500 years)	7672.0	6535.0	9525.0
0.6667 (1.50 years)	2475.3		
0.4292 (2.33 years)	3090.6		

Upper Peninsula

04060500

Iron River at County Hwy-424 at Caspian, MI

Number of peaks in record: 33

Number of peaks in analysis: 33

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	118.5	78.7	157.0
0.9900 (1.01 years)	137.4	94.5	178.2
0.9500 (1.05 years)	204.1	153.4	251.0
0.9000 (1.11 years)	250.8	196.5	301.3
0.8000 (1.25 years)	320.3	262.0	376.7
0.5000 (2 years)	504.4	432.3	589.2
0.2000 (5 years)	779.8	662.8	954.5
0.1000 (10 years)	972.2	810.7	1237.0
0.0400 (25 years)	1223.0	993.8	1630.0
0.0200 (50 years)	1415.0	1128.0	1946.0
0.0100 (100 years)	1609.0	1261.0	2278.0
0.0050 (200 years)	1808.0	1394.0	2628.0
0.0020 (500 years)	2077.0	1569.0	3120.0
0.6667 (1.50 years)	400.8		
0.4292 (2.33 years)	554.4		

04060993

Brule River at US Highway 2 near Florence, WI

Number of peaks in record: 62

Number of peaks in analysis: 62

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	526.7	427.1	619.4
0.9900 (1.01 years)	576.4	473.8	671.3
0.9500 (1.05 years)	745.0	635.5	845.9
0.9000 (1.11 years)	859.8	747.4	964.3
0.8000 (1.25 years)	1029.0	913.0	1140.0
0.5000 (2 years)	1479.0	1345.0	1625.0
0.2000 (5 years)	2181.0	1971.0	2456.0
0.1000 (10 years)	2701.0	2404.0	3116.0
0.0400 (25 years)	3418.0	2978.0	4073.0
0.0200 (50 years)	3998.0	3427.0	4876.0
0.0100 (100 years)	4618.0	3897.0	5757.0
0.0050 (200 years)	5281.0	4390.0	6725.0
0.0020 (500 years)	6234.0	5084.0	8154.0
0.6667 (1.50 years)	1225.2		
0.4292 (2.33 years)	1600.7		

Upper Peninsula

04061000

Brule River near Florence, WI

Number of peaks in record: 51

Number of peaks in analysis: 51

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	552.4	444.6	650.2
0.9900 (1.01 years)	601.6	491.4	701.1
0.9500 (1.05 years)	765.8	650.7	869.4
0.9000 (1.11 years)	875.2	758.6	981.3
0.8000 (1.25 years)	1034.0	915.4	1145.0
0.5000 (2 years)	1442.0	1310.0	1585.0
0.2000 (5 years)	2050.0	1852.0	2312.0
0.1000 (10 years)	2483.0	2211.0	2872.0
0.0400 (25 years)	3065.0	2674.0	3662.0
0.0200 (50 years)	3524.0	3026.0	4309.0
0.0100 (100 years)	4003.0	3387.0	5004.0
0.0050 (200 years)	4507.0	3759.0	5754.0
0.0020 (500 years)	5216.0	4271.0	6838.0
0.6667 (1.50 years)	1213.5		
0.4292 (2.33 years)	1549.3		

04062200

Peshekee River near Champion, MI

Number of peaks in record: 26

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1316.0	1023.0	1559.0
0.9900 (1.01 years)	1389.0	1095.0	1633.0
0.9500 (1.05 years)	1633.0	1340.0	1877.0
0.9000 (1.11 years)	1796.0	1507.0	2042.0
0.8000 (1.25 years)	2033.0	1750.0	2284.0
0.5000 (2 years)	2647.0	2361.0	2958.0
0.2000 (5 years)	3578.0	3188.0	4145.0
0.1000 (10 years)	4255.0	3729.0	5110.0
0.0400 (25 years)	5180.0	4424.0	6528.0
0.0200 (50 years)	5921.0	4958.0	7732.0
0.0100 (100 years)	6710.0	5507.0	9065.0
0.0050 (200 years)	7552.0	6079.0	10550.0
0.0020 (500 years)	8759.0	6875.0	12760.0
0.6667 (1.50 years)	2303.0		
0.4292 (2.33 years)	2807.5		

Upper Peninsula

04062300

Michigamme River at Republic, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	766.6	554.1	955.4
0.9900 (1.01 years)	852.0	632.1	1045.0
0.9500 (1.05 years)	1134.0	900.5	1338.0
0.9000 (1.11 years)	1320.0	1082.0	1529.0
0.8000 (1.25 years)	1584.0	1344.0	1805.0
0.5000 (2 years)	2236.0	1973.0	2535.0
0.2000 (5 years)	3143.0	2758.0	3705.0
0.1000 (10 years)	3749.0	3238.0	4567.0
0.0400 (25 years)	4518.0	3816.0	5731.0
0.0200 (50 years)	5093.0	4233.0	6643.0
0.0100 (100 years)	5669.0	4641.0	7588.0
0.0050 (200 years)	6251.0	5043.0	8571.0
0.0020 (500 years)	7033.0	5573.0	9933.0
0.6667 (1.50 years)	1875.5		
0.4292 (2.33 years)	2404.6		

04063000

Menominee River near Florence, WI

Number of peaks in record: 87

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	4145.0	3246.0	4910.0
0.9000 (1.11 years)	4819.0	3913.0	5602.0
0.8000 (1.25 years)	5766.0	4860.0	6591.0
0.5000 (2 years)		8054.0	7079.0 9172.0
0.2000 (5 years)		11120.0	9724.0 13200.0
0.1000 (10 years)	13100.0	11280.0	16090.0
0.0400 (25 years)	15550.0	13110.0	19900.0
0.0200 (50 years)	17330.0	14390.0	22810.0
0.0100 (100 years)	19090.0	15620.0	25770.0
0.0050 (200 years)	20830.0	16820.0	28800.0
0.0020 (500 years)	23130.0	18360.0	32900.0
0.6667 (1.50 years)	6798.3		
0.4292 (2.33 years)	8635.4		

Upper Peninsula

04065300

West Branch Sturgeon River near Randville, MI

Number of peaks in record: 23

Number of peaks in analysis: 23

Annual Exceedence Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	163.4	125.5	193.8
0.9900 (1.01 years)	173.7	135.8	204.0
0.9500 (1.05 years)	206.7	169.7	236.6
0.9000 (1.11 years)	227.8	191.7	257.5
0.8000 (1.25 years)	257.4	222.7	287.5
0.5000 (2 years)	329.4	295.5	366.6
0.2000 (5 years)	429.1	384.3	495.1
0.1000 (10 years)	496.2	438.2	592.1
0.0400 (25 years)	582.7	503.5	725.6
0.0200 (50 years)	648.5	551.2	832.4
0.0100 (100 years)	715.4	598.4	945.4
0.0050 (200 years)	784.1	645.6	1065.0
0.0020 (500 years)	878.2	708.9	1235.0
0.6667 (1.50 years)	289.8		
0.4292 (2.33 years)	347.5		

04065500

Sturgeon River near Foster City, MI

Number of peaks in record: 25

Number of peaks in analysis: 25

Annual Exceedence Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	560.0	428.2	668.2
0.9900 (1.01 years)	597.6	465.2	705.9
0.9500 (1.05 years)	719.5	588.2	827.7
0.9000 (1.11 years)	798.5	669.3	906.9
0.8000 (1.25 years)	910.2	784.7	1021.0
0.5000 (2 years)	1187.0	1061.0	1326.0
0.2000 (5 years)	1580.0	1409.0	1830.0
0.1000 (10 years)	1849.0	1625.0	2216.0
0.0400 (25 years)	2202.0	1891.0	2756.0
0.0200 (50 years)	2473.0	2088.0	3194.0
0.0100 (100 years)	2752.0	2284.0	3661.0
0.0050 (200 years)	3041.0	2483.0	4162.0
0.0020 (500 years)	3442.0	2751.0	4881.0
0.6667 (1.50 years)	1034.0		
0.4292 (2.33 years)	1257.7		

Upper Peninsula

04066800

Menominee River at Koss, MI

Number of peaks in record: 75

Number of peaks in analysis: 71

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	3984.0	3231.0	4688.0
0.9900 (1.01 years)	4532.0	3746.0	5261.0
0.9500 (1.05 years)	6357.0	5505.0	7137.0
0.9000 (1.11 years)	7550.0	6679.0	8355.0
0.8000 (1.25 years)	9228.0	8338.0	10080.0
0.5000 (2 years)	13240.0	12210.0	14370.0
0.2000 (5 years)	18450.0	16880.0	20440.0
0.1000 (10 years)	21690.0	19640.0	24450.0
0.0400 (25 years)	25570.0	22840.0	29400.0
0.0200 (50 years)	28310.0	25050.0	32980.0
0.0100 (100 years)	30930.0	27140.0	36470.0
0.0050 (200 years)	33450.0	29130.0	39880.0
0.0020 (500 years)	36680.0	31640.0	44310.0
0.6667 (1.50 years)	11045.8		
0.4292 (2.33 years)	14255.8		

04067000

Menominee River near Koss, MI

Number of peaks in record: 69

Number of peaks in analysis: 65

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	3952.0	3164.0	4688.0
0.9900 (1.01 years)	4503.0	3679.0	5266.0
0.9500 (1.05 years)	6341.0	5445.0	7159.0
0.9000 (1.11 years)	7544.0	6627.0	8389.0
0.8000 (1.25 years)	9238.0	8300.0	10130.0
0.5000 (2 years)	13290.0	12200.0	14480.0
0.2000 (5 years)	18540.0	16890.0	20660.0
0.1000 (10 years)	21810.0	19660.0	24740.0
0.0400 (25 years)	25710.0	22850.0	29790.0
0.0200 (50 years)	28460.0	25050.0	33440.0
0.0100 (100 years)	31080.0	27120.0	36990.0
0.0050 (200 years)	33610.0	29090.0	40470.0
0.0020 (500 years)	36840.0	31570.0	44970.0
0.6667 (1.50 years)	11072.3		
0.4292 (2.33 years)	14313.0		

Upper Peninsula

04067500

Menominee River near Mc Allister, WI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedence Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	5618.0	4588.0	6545.0
0.9900 (1.01 years)	6112.0	5063.0	7051.0
0.9500 (1.05 years)	7737.0	6656.0	8703.0
0.9000 (1.11 years)	8803.0	7717.0	9784.0
0.8000 (1.25 years)	10320.0	9236.0	11340.0
0.5000 (2 years)	14150.0	12960.0	15440.0
0.2000 (5 years)	19640.0	17880.0	21940.0
0.1000 (10 years)	23440.0	21060.0	26780.0
0.0400 (25 years)	28420.0	25070.0	33420.0
0.0200 (50 years)	32250.0	28060.0	38710.0
0.0100 (100 years)	36200.0	31080.0	44300.0
0.0050 (200 years)	40280.0	34150.0	50220.0
0.0020 (500 years)	45920.0	38310.0	58590.0
0.6667 (1.50 years)	12025.0		
0.4292 (2.33 years)	15139.1		

Lower Peninsula

Lower Peninsula

04096400

St. Joseph River near Burlington, MI

Number of peaks in record: 29

Number of peaks in analysis: 29

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	243.3	176.9	301.6
0.9900 (1.01 years)	269.0	200.6	328.4
0.9500 (1.05 years)	353.6	281.7	415.4
0.9000 (1.11 years)	408.7	336.2	472.0
0.8000 (1.25 years)	486.8	414.1	553.4
0.5000 (2 years)	678.8	600.1	767.8
0.2000 (5 years)	943.8	830.2	1110.0
0.1000 (10 years)	1120.0	970.0	1361.0
0.0400 (25 years)	1343.0	1138.0	1700.0
0.0200 (50 years)	1510.0	1259.0	1964.0
0.0100 (100 years)	1677.0	1377.0	2239.0
0.0050 (200 years)	1845.0	1494.0	2524.0
0.0020 (500 years)	2072.0	1647.0	2919.0
0.6667 (1.50 years)	572.9		
0.4292 (2.33 years)	728.0		

04096405

St. Joseph River at Burlington, MI

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	216.2	166.4	261.1
0.9900 (1.01 years)	240.6	189.2	286.6
0.9500 (1.05 years)	321.2	266.7	369.5
0.9000 (1.11 years)	373.8	318.6	423.4
0.8000 (1.25 years)	448.4	392.6	500.4
0.5000 (2 years)	631.0	569.0	700.0
0.2000 (5 years)	881.0	789.1	1007.0
0.1000 (10 years)	1046.0	923.8	1225.0
0.0400 (25 years)	1252.0	1086.0	1514.0
0.0200 (50 years)	1405.0	1202.0	1735.0
0.0100 (100 years)	1557.0	1315.0	1961.0
0.0050 (200 years)	1709.0	1427.0	2193.0
0.0020 (500 years)	1912.0	1572.0	2509.0
0.6667 (1.50 years)	530.3		
0.4292 (2.33 years)	677.8		

Lower Peninsula

04096515

South Branch Hog Creek near Allen, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	75.9	53.7	96.7
0.9900 (1.01 years)	85.4	62.0	107.1
0.9500 (1.05 years)	118.3	92.0	142.2
0.9000 (1.11 years)	140.9	113.3	166.2
0.8000 (1.25 years)	174.4	145.4	202.1
0.5000 (2 years)	263.4	228.9	302.9
0.2000 (5 years)	400.0	345.3	479.6
0.1000 (10 years)	498.8	422.5	620.7
0.0400 (25 years)	632.3	521.4	824.2
0.0200 (50 years)	737.6	596.4	993.3
0.0100 (100 years)	847.8	672.7	1177.0
0.0050 (200 years)	963.5	750.9	1376.0
0.0020 (500 years)	1126.0	857.8	1666.0
0.6667 (1.50 years)	213.2	0.4292	287.5

04096600

Coldwater River near Hodunk, MI

Number of peaks in record: 27

Number of peaks in analysis: 27

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	597.9	463.4	714.8
0.9000 (1.11 years)	695.8	558.6	816.7
0.8000 (1.25 years)	836.9	697.4	965.5
0.5000 (2 years)	1194.0	1040.0	1371.0
0.2000 (5 years)	1709.0	1482.0	2051.0
0.1000 (10 years)	2065.0	1758.0	2573.0
0.0400 (25 years)	2527.0	2099.0	3303.0
0.0200 (50 years)	2882.0	2349.0	3893.0
0.0100 (100 years)	3244.0	2598.0	4519.0
0.0050 (200 years)	3616.0	2847.0	5186.0
0.0020 (500 years)	4127.0	3181.0	6134.0
0.6667 (1.50 years)	995.3		
0.4292 (2.33 years)	1287.7		

Lower Peninsula

04096900

Nottawa Creek near Athens, MI

Number of peaks in record: 31

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	251.7	192.6	303.4
0.9900 (1.01 years)	267.9	207.9	320.1
0.9500 (1.05 years)	323.3	261.6	377.2
0.9000 (1.11 years)	361.5	299.2	416.6
0.8000 (1.25 years)	418.4	355.7	476.2
0.5000 (2 years)	573.4	505.9	647.8
0.2000 (5 years)	825.1	726.0	967.4
0.1000 (10 years)	1019.0	879.5	1241.0
0.0400 (25 years)	1295.0	1086.0	1663.0
0.0200 (50 years)	1526.0	1251.0	2036.0
0.0100 (100 years)	1779.0	1425.0	2464.0
0.0050 (200 years)	2058.0	1612.0	2955.0
0.0020 (500 years)	2472.0	1881.0	3716.0
0.6667 (1.50 years)	485.5		
0.4292 (2.33 years)	615.4		

04097170

Portage River at W Avenue near Vicksburg, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	104.9	90.2	117.7
0.9000 (1.11 years)	117.4	102.9	130.4
0.8000 (1.25 years)	135.3	120.9	148.5
0.5000 (2 years)	179.9	164.8	196.3
0.2000 (5 years)	243.9	222.3	272.6
0.1000 (10 years)	288.1	259.2	329.8
0.0400 (25 years)	346.3	305.6	408.6
0.0200 (50 years)	391.2	340.4	471.9
0.0100 (100 years)	437.5	375.4	539.0
0.0050 (200 years)	485.6	411.2	610.4
0.0020 (500 years)	552.4	459.8	712.1
0.6667 (1.50 years)	155.2		
0.4292 (2.33 years)	191.4		

Lower Peninsula

04097500

St. Joseph River at Three Rivers, MI

Number of peaks in record: 45

Number of peaks in analysis: 44

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1545.0	1260.0	1792.0
0.9900 (1.01 years)	1684.0	1397.0	1932.0
0.9500 (1.05 years)	2125.0	1839.0	2371.0
0.9000 (1.11 years)	2400.0	2120.0	2645.0
0.8000 (1.25 years)	2777.0	2505.0	3025.0
0.5000 (2 years)	3648.0	3366.0	3955.0
0.2000 (5 years)	4757.0	4366.0	5275.0
0.1000 (10 years)	5449.0	4947.0	6161.0
0.0400 (25 years)	6283.0	5623.0	7276.0
0.0200 (50 years)	6881.0	6094.0	8099.0
0.0100 (100 years)	7461.0	6543.0	8915.0
0.0050 (200 years)	8029.0	6976.0	9729.0
0.0020 (500 years)	8768.0	7532.0	10810.0
0.6667 (1.50 years)	3175.8		
0.4292 (2.33 years)	3862.5		

04097540

Prairie River near Nottawa, MI

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	177.5	148.4	203.3
0.9000 (1.11 years)	205.0	175.6	231.3
0.8000 (1.25 years)	243.9	214.4	271.4
0.5000 (2 years)	339.1	306.6	375.0
0.2000 (5 years)	469.9	422.3	534.7
0.1000 (10 years)	556.5	493.4	649.4
0.0400 (25 years)	666.0	579.5	801.6
0.0200 (50 years)	747.5	641.6	919.2
0.0100 (100 years)	828.9	702.5	1040.0
0.0050 (200 years)	911.0	762.7	1164.0
0.0020 (500 years)	1021.0	841.9	1335.0
0.6667 (1.50 years)	286.6		
0.4292 (2.33 years)	363.4		

Lower Peninsula

04098500

Fawn River near White Pigeon, MI

Number of peaks in record: 26

Number of peaks in analysis: 25

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	162.6	119.8	198.2
0.9900 (1.01 years)	178.5	135.0	214.3
0.9500 (1.05 years)	228.9	185.2	264.7
0.9000 (1.11 years)	260.4	217.5	296.3
0.8000 (1.25 years)	303.4	261.9	340.2
0.5000 (2 years)	402.5	360.3	450.1
0.2000 (5 years)	527.1	469.9	611.3
0.1000 (10 years)	603.8	531.4	721.0
0.0400 (25 years)	695.4	601.2	859.6
0.0200 (50 years)	760.2	649.0	962.0
0.0100 (100 years)	822.6	693.9	1063.0
0.0050 (200 years)	883.2	736.6	1164.0
0.0020 (500 years)	961.2	790.7	1298.0
0.6667 (1.50 years)	348.8		
0.4292 (2.33 years)	426.8		

04099000

St. Joseph River at Mottville, MI

Number of peaks in record: 81

Number of peaks in analysis: 81

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2404.0	2124.0	2654.0
0.9900 (1.01 years)	2557.0	2277.0	2806.0
0.9500 (1.05 years)	3049.0	2774.0	3295.0
0.9000 (1.11 years)	3365.0	3096.0	3609.0
0.8000 (1.25 years)	3808.0	3546.0	4053.0
0.5000 (2 years)	4893.0	4620.0	5179.0
0.2000 (5 years)	6404.0	6019.0	6874.0
0.1000 (10 years)	7428.0	6917.0	8088.0
0.0400 (25 years)	8751.0	8041.0	9712.0
0.0200 (50 years)	9759.0	8878.0	10980.0
0.0100 (100 years)	10790.0	9721.0	12300.0
0.0050 (200 years)	11850.0	10580.0	13680.0
0.0020 (500 years)	13300.0	11730.0	15600.0
0.6667 (1.50 years)	4295.6		
0.4292 (2.33 years)	5167.4		

Lower Peninsula

04100500

Elkhart River at Goshen, IN

Number of peaks in record: 77

Number of peaks in analysis: 77

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1361.0	1183.0	1525.0
0.9000 (1.11 years)	1615.0	1433.0	1785.0
0.8000 (1.25 years)	1976.0	1789.0	2155.0
0.5000 (2 years)	2853.0	2634.0	3092.0
0.2000 (5 years)	4023.0	3687.0	4449.0
0.1000 (10 years)	4772.0	4326.0	5367.0
0.0400 (25 years)	5685.0	5082.0	6525.0
0.0200 (50 years)	6343.0	5615.0	7381.0
0.0100 (100 years)	6982.0	6125.0	8227.0
0.0050 (200 years)	7608.0	6619.0	9068.0
0.0020 (500 years)	8422.0	7252.0	10180.0
0.6667 (1.50 years)	2370.7		
0.4292 (2.33 years)	3077.1		

04101000

St. Joseph River at Elkhart, IN

Number of peaks in record: 83

Number of peaks in analysis: 25

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	4008.0	2933.0	4922.0
0.9900 (1.01 years)	4335.0	3241.0	5258.0
0.9500 (1.05 years)	5410.0	4288.0	6356.0
0.9000 (1.11 years)	6117.0	4994.0	7079.0
0.8000 (1.25 years)	7129.0	6015.0	8132.0
0.5000 (2 years)	9690.0	8523.0	11000.0
0.2000 (5 years)	13410.0	11770.0	15880.0
0.1000 (10 years)	16020.0	13820.0	19700.0
0.0400 (25 years)	19470.0	16370.0	25130.0
0.0200 (50 years)	22160.0	18270.0	29610.0
0.0100 (100 years)	24940.0	20190.0	34440.0
0.0050 (200 years)	27840.0	22140.0	39670.0
0.0020 (500 years)	31890.0	24780.0	47260.0
0.6667 (1.50 years)	8265.4		
0.4292 (2.33 years)	10355.7		

Lower Peninsula

04101500

St. Joseph River at Niles, MI

Number of peaks in record: 74

Number of peaks in analysis: 74

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	6208.0	5589.0	6759.0
0.9000 (1.11 years)	7010.0	6404.0	7557.0
0.8000 (1.25 years)	8101.0	7511.0	8651.0
0.5000 (2 years)	10600.0	9978.0	11260.0
0.2000 (5 years)	13730.0	12850.0	14810.0
0.1000 (10 years)	15660.0	14530.0	17120.0
0.0400 (25 years)	17960.0	16480.0	19960.0
0.0200 (50 years)	19590.0	17840.0	22020.0
0.0100 (100 years)	21160.0	19130.0	24040.0
0.0050 (200 years)	22690.0	20360.0	26020.0
0.0020 (500 years)	24660.0	21940.0	28610.0
0.6667 (1.50 years)	9248.9		
0.4292 (2.33 years)	11210.3		

04101800

Dowagiac River at Sumnerville, MI

Number of peaks in record: 44

Number of peaks in analysis: 44

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	545.7	477.7	601.6
0.9900 (1.01 years)	573.7	507.0	628.5
0.9500 (1.05 years)	659.6	597.8	711.0
0.9000 (1.11 years)	711.8	653.2	761.4
0.8000 (1.25 years)	781.8	727.2	830.2
0.5000 (2 years)	940.4	888.7	994.8
0.2000 (5 years)	1139.0	1073.0	1224.0
0.1000 (10 years)	1262.0	1179.0	1377.0
0.0400 (25 years)	1412.0	1304.0	1569.0
0.0200 (50 years)	1519.0	1391.0	1711.0
0.0100 (100 years)	1624.0	1474.0	1852.0
0.0050 (200 years)	1727.0	1556.0	1994.0
0.0020 (500 years)	1863.0	1662.0	2183.0
0.6667 (1.50 years)	855.0		
0.4292 (2.33 years)	978.4		

Lower Peninsula

04102000

St. Joseph River at Berrien Springs, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	6784.0	5797.0	7612.0
0.9000 (1.11 years)	7693.0	6734.0	8512.0
0.8000 (1.25 years)	8909.0	7991.0	9736.0
0.5000 (2 years)	11600.0	10670.0	12640.0
0.2000 (5 years)	14800.0	13530.0	16520.0
0.1000 (10 years)	16660.0	15090.0	18970.0
0.0400 (25 years)	18800.0	16800.0	21900.0
0.0200 (50 years)	20260.0	17940.0	23950.0
0.0100 (100 years)	21620.0	18990.0	25910.0
0.0050 (200 years)	22910.0	19960.0	27790.0
0.0020 (500 years)	24510.0	21170.0	30190.0
0.6667 (1.50 years)	10162.1		
0.4292 (2.33 years)	12249.1		

04102500

Paw Paw River at Riverside, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	676.0	570.7	768.8
0.9900 (1.01 years)	716.8	611.0	809.9
0.9500 (1.05 years)	852.4	746.7	946.0
0.9000 (1.11 years)	942.7	837.8	1037.0
0.8000 (1.25 years)	1073.0	969.7	1169.0
0.5000 (2 years)	1411.0	1302.0	1527.0
0.2000 (5 years)	1919.0	1763.0	2121.0
0.1000 (10 years)	2286.0	2073.0	2583.0
0.0400 (25 years)	2785.0	2477.0	3243.0
0.0200 (50 years)	3183.0	2789.0	3789.0
0.0100 (100 years)	3605.0	3113.0	4383.0
0.0050 (200 years)	4053.0	3451.0	5031.0
0.0020 (500 years)	4694.0	3924.0	5980.0
0.6667 (1.50 years)	1222.2		
0.4292 (2.33 years)	1499.1		

Lower Peninsula

04102700

South Branch Black River near Bangor, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	337.3	261.9	404.5
0.9900 (1.01 years)	364.3	287.4	432.6
0.9500 (1.05 years)	455.3	375.2	526.3
0.9000 (1.11 years)	516.7	435.6	589.5
0.8000 (1.25 years)	606.6	524.6	683.0
0.5000 (2 years)	843.6	753.5	942.9
0.2000 (5 years)	1210.0	1075.0	1397.0
0.1000 (10 years)	1479.0	1293.0	1763.0
0.0400 (25 years)	1851.0	1578.0	2301.0
0.0200 (50 years)	2151.0	1799.0	2756.0
0.0100 (100 years)	2471.0	2029.0	3260.0
0.0050 (200 years)	2814.0	2269.0	3819.0
0.0020 (500 years)	3308.0	2606.0	4650.0
0.6667 (1.50 years)	710.3		
0.4292 (2.33 years)	906.8		

04103500

Kalamazoo River at Marshall, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	454.3	367.7	528.1
0.9900 (1.01 years)	487.6	400.6	561.4
0.9500 (1.05 years)	594.3	508.2	667.7
0.9000 (1.11 years)	662.4	577.8	735.6
0.8000 (1.25 years)	757.4	675.2	831.7
0.5000 (2 years)	986.9	902.9	1078.0
0.2000 (5 years)	1300.0	1185.0	1458.0
0.1000 (10 years)	1509.0	1357.0	1733.0
0.0400 (25 years)	1774.0	1568.0	2101.0
0.0200 (50 years)	1974.0	1721.0	2389.0
0.0100 (100 years)	2175.0	1872.0	2687.0
0.0050 (200 years)	2380.0	2022.0	2998.0
0.0020 (500 years)	2658.0	2223.0	3430.0
0.6667 (1.50 years)	860.9		
0.4292 (2.33 years)	1044.7		

Lower Peninsula

04105000 **Battle Creek at Battle Creek, MI**

Number of peaks in record: 73
 Number of peaks in analysis: 72

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	668.7	581.1	749.6
0.9000 (1.11 years)	768.8	679.2	852.1
0.8000 (1.25 years)	915.0	823.2	1003.0
0.5000 (2 years)	1298.0	1193.0	1412.0
0.2000 (5 years)	1884.0	1720.0	2092.0
0.1000 (10 years)	2309.0	2080.0	2619.0
0.0400 (25 years)	2889.0	2553.0	3370.0
0.0200 (50 years)	3351.0	2920.0	3988.0
0.0100 (100 years)	3840.0	3300.0	4659.0
0.0050 (200 years)	4360.0	3697.0	5386.0
0.0020 (500 years)	5098.0	4251.0	6445.0
0.6667 (1.50 years)	1082.9		
0.4292 (2.33 years)	1400.7		

04105500 **Kalamazoo River near Battle Creek, MI**

Number of peaks in record: 67
 Number of peaks in analysis: 67

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1057.0	890.5	1208.0
0.9900 (1.01 years)	1142.0	973.1	1295.0
0.9500 (1.05 years)	1423.0	1250.0	1580.0
0.9000 (1.11 years)	1609.0	1435.0	1768.0
0.8000 (1.25 years)	1876.0	1702.0	2040.0
0.5000 (2 years)	2556.0	2365.0	2761.0
0.2000 (5 years)	3555.0	3271.0	3916.0
0.1000 (10 years)	4261.0	3872.0	4787.0
0.0400 (25 years)	5202.0	4645.0	5998.0
0.0200 (50 years)	5939.0	5234.0	6977.0
0.0100 (100 years)	6707.0	5836.0	8020.0
0.0050 (200 years)	7512.0	6456.0	9137.0
0.0020 (500 years)	8640.0	7311.0	10740.0
0.6667 (1.50 years)	2176.9		
0.4292 (2.33 years)	2733.5		

Lower Peninsula

04105700

Augusta Creek near Augusta, MI

Number of peaks in record: 40

Number of peaks in analysis: 40

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	62.1	50.8	72.0
0.9900 (1.01 years)	65.4	54.0	75.3
0.9500 (1.05 years)	76.6	65.1	86.7
0.9000 (1.11 years)	84.3	72.8	94.5
0.8000 (1.25 years)	95.8	84.4	106.3
0.5000 (2 years)	126.9	114.9	139.8
0.2000 (5 years)	177.0	159.7	200.4
0.1000 (10 years)	215.2	191.1	251.1
0.0400 (25 years)	269.5	233.4	327.7
0.0200 (50 years)	314.7	267.2	394.5
0.0100 (100 years)	364.1	303.2	470.3
0.0050 (200 years)	418.3	341.7	556.4
0.0020 (500 years)	498.4	397.1	688.4
0.6667 (1.50 years)	109.3		
0.4292 (2.33 years)	135.2		

04106000

Kalamazoo River at Comstock, MI

Number of peaks in record: 67

Number of peaks in analysis: 67

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1123.0	939.3	1290.0
0.9900 (1.01 years)	1234.0	1046.0	1403.0
0.9500 (1.05 years)	1593.0	1400.0	1767.0
0.9000 (1.11 years)	1824.0	1631.0	2000.0
0.8000 (1.25 years)	2148.0	1956.0	2330.0
0.5000 (2 years)	2933.0	2721.0	3160.0
0.2000 (5 years)	3993.0	3683.0	4387.0
0.1000 (10 years)	4689.0	4277.0	5242.0
0.0400 (25 years)	5560.0	4998.0	6353.0
0.0200 (50 years)	6204.0	5518.0	7198.0
0.0100 (100 years)	6846.0	6028.0	8056.0
0.0050 (200 years)	7489.0	6532.0	8931.0
0.0020 (500 years)	8349.0	7196.0	10120.0
0.6667 (1.50 years)	2501.9		
0.4292 (2.33 years)	3131.5		

Lower Peninsula

04106180

Portage Creek at Portage, MI

Number of peaks in record: 22

Number of peaks in analysis: 22

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	39.0	32.1	44.3
0.9900 (1.01 years)	40.5	33.7	45.7
0.9500 (1.05 years)	45.4	39.0	50.4
0.9000 (1.11 years)	48.5	42.4	53.4
0.8000 (1.25 years)	52.9	47.2	57.7
0.5000 (2 years)	63.6	58.3	69.1
0.2000 (5 years)	78.3	71.8	87.6
0.1000 (10 years)	88.2	79.9	101.6
0.0400 (25 years)	101.0	89.8	120.7
0.0200 (50 years)	110.7	97.0	136.0
0.0100 (100 years)	120.6	104.2	152.2
0.0050 (200 years)	130.8	111.4	169.3
0.0020 (500 years)	144.8	121.1	193.5
0.6667 (1.50 years)	57.7		
0.4292 (2.33 years)	66.2		

04106300

Portage Creek near Kalamazoo, MI

Number of peaks in record: 40

Number of peaks in analysis: 40

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	77.0	63.6	88.5
0.9900 (1.01 years)	81.8	68.3	93.2
0.9500 (1.05 years)	97.2	83.9	108.6
0.9000 (1.11 years)	107.2	94.2	118.6
0.8000 (1.25 years)	121.5	108.8	133.1
0.5000 (2 years)	157.3	144.3	171.2
0.2000 (5 years)	208.7	190.7	232.8
0.1000 (10 years)	244.6	220.6	279.5
0.0400 (25 years)	291.9	258.3	344.5
0.0200 (50 years)	328.7	286.6	397.1
0.0100 (100 years)	366.9	315.2	453.2
0.0050 (200 years)	406.7	344.6	513.3
0.0020 (500 years)	462.3	384.7	599.5
0.6667 (1.50 years)	137.4		
0.4292 (2.33 years)	166.4		

Lower Peninsula

04106320

West Fork Portage Creek near Oshtemo, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	6.8	5.3	8.0
0.9900 (1.01 years)	7.2	5.8	8.4
0.9500 (1.05 years)	8.6	7.1	9.8
0.9000 (1.11 years)	9.5	8.1	10.8
0.8000 (1.25 years)	10.9	9.5	12.2
0.5000 (2 years)	14.4	12.9	16.0
0.2000 (5 years)	19.7	17.7	22.6
0.1000 (10 years)	23.6	20.8	27.9
0.0400 (25 years)	28.9	24.9	35.7
0.0200 (50 years)	33.1	28.0	42.3
0.0100 (100 years)	37.7	31.2	49.5
0.0050 (200 years)	42.5	34.6	57.5
0.0020 (500 years)	49.4	39.3	69.3
0.6667 (1.50 years)	12.4		
0.4292 (2.33 years)	15.3		

04106400

West Fork Portage Creek at Kalamazoo, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	11.1	9.2	12.7
0.9900 (1.01 years)	11.9	10.0	13.6
0.9500 (1.05 years)	14.7	12.8	16.4
0.9000 (1.11 years)	16.5	14.6	18.1
0.8000 (1.25 years)	18.9	17.1	20.5
0.5000 (2 years)	24.6	22.7	26.6
0.2000 (5 years)	32.0	29.5	35.4
0.1000 (10 years)	36.8	33.5	41.5
0.0400 (25 years)	42.8	38.3	49.4
0.0200 (50 years)	47.1	41.8	55.4
0.0100 (100 years)	51.4	45.1	61.4
0.0050 (200 years)	55.7	48.4	67.6
0.0020 (500 years)	61.4	52.6	75.9
0.6667 (1.50 years)	21.5		
0.4292 (2.33 years)	26.0		

Lower Peninsula

04106500 **Portage Creek at Kalamazoo, MI**

Number of peaks in record: 22

Number of peaks in analysis: 22

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	132.1	103.3	156.2
0.9000 (1.11 years)	147.3	118.5	171.8
0.8000 (1.25 years)	169.6	141.0	195.1
0.5000 (2 years)	228.1	198.5	261.1
0.2000 (5 years)	318.4	277.0	381.7
0.1000 (10 years)	384.9	328.7	482.7
0.0400 (25 years)	476.9	395.3	634.6
0.0200 (50 years)	551.4	446.7	766.0
0.0100 (100 years)	631.2	499.7	913.9
0.0050 (200 years)	716.9	555.0	1080.0
0.0020 (500 years)	840.8	632.4	1333.0
0.6667 (1.50 years)	195.2		
0.4292 (2.33 years)	243.6		

04108500 **Kalamazoo River near Fennville, MI**

Number of peaks in record: 63

Number of peaks in analysis: 62

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1998.0	1688.0	2278.0
0.9900 (1.01 years)	2133.0	1820.0	2415.0
0.9500 (1.05 years)	2586.0	2267.0	2874.0
0.9000 (1.11 years)	2889.0	2570.0	3181.0
0.8000 (1.25 years)	3332.0	3012.0	3632.0
0.5000 (2 years)	4489.0	4142.0	4859.0
0.2000 (5 years)	6261.0	5748.0	6916.0
0.1000 (10 years)	7558.0	6848.0	8531.0
0.0400 (25 years)	9341.0	8300.0	10850.0
0.0200 (50 years)	10780.0	9435.0	12790.0
0.0100 (100 years)	12310.0	10620.0	14910.0
0.0050 (200 years)	13950.0	11860.0	17240.0
0.0020 (500 years)	16300.0	13620.0	20670.0
0.6667 (1.50 years)	3839.6		
0.4292 (2.33 years)	4794.7		

Lower Peninsula

04108600

Rabbit River near Hopkins, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	228.8	172.4	281.1
0.9900 (1.01 years)	246.4	188.4	299.9
0.9500 (1.05 years)	308.8	246.5	366.3
0.9000 (1.11 years)	353.5	288.8	413.6
0.8000 (1.25 years)	422.2	354.6	487.0
0.5000 (2 years)	620.7	541.5	709.2
0.2000 (5 years)	971.9	844.0	1153.0
0.1000 (10 years)	1261.0	1072.0	1559.0
0.0400 (25 years)	1700.0	1397.0	2220.0
0.0200 (50 years)	2085.0	1670.0	2837.0
0.0100 (100 years)	2525.0	1971.0	3576.0
0.0050 (200 years)	3028.0	2304.0	4459.0
0.0020 (500 years)	3806.0	2803.0	5891.0
0.6667 (1.50 years)	506.2		
0.4292 (2.33 years)	676.9		

04108645

Rabbit River at State Highway 40 at Hamilton, MI

Number of peaks in record: 26

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	908.8	646.4	1143.0
0.9900 (1.01 years)	975.6	707.0	1214.0
0.9500 (1.05 years)	1209.0	924.3	1461.0
0.9000 (1.11 years)	1373.0	1081.0	1635.0
0.8000 (1.25 years)	1621.0	1321.0	1901.0
0.5000 (2 years)	2319.0	1984.0	2699.0
0.2000 (5 years)	3504.0	2993.0	4281.0
0.1000 (10 years)	4447.0	3714.0	5711.0
0.0400 (25 years)	5837.0	4704.0	8013.0
0.0200 (50 years)	7027.0	5508.0	10130.0
0.0100 (100 years)	8359.0	6374.0	12640.0
0.0050 (200 years)	9855.0	7313.0	15600.0
0.0020 (500 years)	12120.0	8683.0	20350.0
0.6667 (1.50 years)	1919.6		
0.4292 (2.33 years)	2512.7		

Lower Peninsula

04108800

Macatawa River at State Road near Zeeland, MI

Number of peaks in record: 43

Number of peaks in analysis: 43

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	528.6	370.5	684.4
0.9900 (1.01 years)	608.1	438.0	773.4
0.9500 (1.05 years)	892.7	690.4	1085.0
0.9000 (1.11 years)	1096.0	877.3	1304.0
0.8000 (1.25 years)	1406.0	1167.0	1640.0
0.5000 (2 years)	2267.0	1961.0	2621.0
0.2000 (5 years)	3664.0	3141.0	4414.0
0.1000 (10 years)	4713.0	3960.0	5890.0
0.0400 (25 years)	6168.0	5039.0	8070.0
0.0200 (50 years)	7342.0	5877.0	9918.0
0.0100 (100 years)	8589.0	6743.0	11950.0
0.0050 (200 years)	9918.0	7643.0	14200.0
0.0020 (500 years)	11810.0	8892.0	17500.0
0.6667 (1.50 years)	1775.4		
0.4292 (2.33 years)	2509.0		

04108801

Macatawa River near Zeeland, MI

Number of peaks in record: 44

Number of peaks in analysis: 44

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	535.9	379.3	689.8
0.9900 (1.01 years)	614.2	446.2	777.0
0.9500 (1.05 years)	893.6	695.1	1082.0
0.9000 (1.11 years)	1093.0	878.9	1297.0
0.8000 (1.25 years)	1397.0	1163.0	1625.0
0.5000 (2 years)	2242.0	1944.0	2585.0
0.2000 (5 years)	3618.0	3109.0	4342.0
0.1000 (10 years)	4657.0	3923.0	5796.0
0.0400 (25 years)	6106.0	5002.0	7953.0
0.0200 (50 years)	7280.0	5844.0	9790.0
0.0100 (100 years)	8534.0	6717.0	11820.0
0.0050 (200 years)	9874.0	7628.0	14070.0
0.0020 (500 years)	11790.0	8900.0	17400.0
0.6667 (1.50 years)	1758.8		
0.4292 (2.33 years)	2478.9		

Lower Peninsula

04109000

Grand River at Jackson, MI

Number of peaks in record: 69

Number of peaks in analysis: 69

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	342.8	308.3	372.6
0.9900 (1.01 years)	359.6	325.6	388.9
0.9500 (1.05 years)	412.1	380.1	440.0
0.9000 (1.11 years)	445.0	414.2	472.1
0.8000 (1.25 years)	490.0	460.9	516.6
0.5000 (2 years)	596.2	567.8	625.8
0.2000 (5 years)	736.8	699.1	782.9
0.1000 (10 years)	828.2	779.8	891.2
0.0400 (25 years)	942.9	877.7	1031.0
0.0200 (50 years)	1028.0	948.9	1138.0
0.0100 (100 years)	1113.0	1019.0	1247.0
0.0050 (200 years)	1199.0	1089.0	1358.0
0.0020 (500 years)	1315.0	1182.0	1510.0
0.6667 (1.50 years)	538.4		
0.4292 (2.33 years)	622.3		

04111000

Grand River near Eaton Rapids, MI

Number of peaks in record: 43

Number of peaks in analysis: 43

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1157.0	978.8	1314.0
0.9000 (1.11 years)	1336.0	1158.0	1494.0
0.8000 (1.25 years)	1583.0	1406.0	1746.0
0.5000 (2 years)	2165.0	1974.0	2376.0
0.2000 (5 years)	2916.0	2642.0	3285.0
0.1000 (10 years)	3387.0	3033.0	3900.0
0.0400 (25 years)	3957.0	3487.0	4677.0
0.0200 (50 years)	4364.0	3803.0	5250.0
0.0100 (100 years)	4758.0	4103.0	5819.0
0.0050 (200 years)	5143.0	4392.0	6385.0
0.0020 (500 years)	5643.0	4761.0	7134.0
0.6667 (1.50 years)	1847.8		
0.4292 (2.33 years)	2309.9		

Lower Peninsula

04111500

Deer Creek near Dansville, MI

Number of peaks in record: 50

Number of peaks in analysis: 50

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	114.1	93.7	132.9
0.9000 (1.11 years)	133.1	111.9	152.9
0.8000 (1.25 years)	161.7	139.5	183.0
0.5000 (2 years)	240.1	213.7	269.3
0.2000 (5 years)	367.8	325.2	425.7
0.1000 (10 years)	465.6	404.3	555.9
0.0400 (25 years)	604.5	511.6	752.0
0.0200 (50 years)	719.6	597.1	921.9
0.0100 (100 years)	844.8	687.7	1113.0
0.0050 (200 years)	981.4	784.3	1329.0
0.0020 (500 years)	1182.0	922.2	1655.0
0.6667 (1.50 years)	195.5		
0.4292 (2.33 years)	261.7		

04112000

Sloan Creek near Williamston, MI

Number of peaks in record: 50

Number of peaks in analysis: 50

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	78.9	60.7	96.7
0.9000 (1.11 years)	96.8	76.8	116.4
0.8000 (1.25 years)	125.3	102.8	147.8
0.5000 (2 years)	212.1	181.6	247.3
0.2000 (5 years)	375.3	318.4	456.2
0.1000 (10 years)	515.0	426.6	652.8
0.0400 (25 years)	731.8	585.3	979.9
0.0200 (50 years)	925.3	720.8	1289.0
0.0100 (100 years)	1149.0	872.0	1663.0
0.0050 (200 years)	1406.0	1041.0	2111.0
0.0020 (500 years)	1807.0	1296.0	2842.0
0.6667 (1.50 years)	161.2		
0.4292 (2.33 years)	238.0		

Lower Peninsula

04112500

Red Cedar River at East Lansing, MI

Number of peaks in record: 96

Number of peaks in analysis: 96

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	911.0	794.5	1021.0
0.9000 (1.11 years)	1069.0	947.0	1185.0
0.8000 (1.25 years)	1304.0	1176.0	1429.0
0.5000 (2 years)	1947.0	1791.0	2115.0
0.2000 (5 years)	2980.0	2721.0	3303.0
0.1000 (10 years)	3762.0	3389.0	4255.0
0.0400 (25 years)	4862.0	4296.0	5648.0
0.0200 (50 years)	5764.0	5019.0	6826.0
0.0100 (100 years)	6737.0	5785.0	8127.0
0.0050 (200 years)	7790.0	6601.0	9564.0
0.0020 (500 years)	9319.0	7763.0	11700.0
0.6667 (1.50 years)	1581.7		
0.4292 (2.33 years)	2123.2		

04112700

Sycamore Creek at Harper Road near Mason, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	139.0	102.1	171.8
0.9900 (1.01 years)	150.1	112.3	183.5
0.9500 (1.05 years)	188.1	148.2	223.4
0.9000 (1.11 years)	214.3	173.6	250.8
0.8000 (1.25 years)	253.3	211.7	292.1
0.5000 (2 years)	359.4	313.1	411.3
0.2000 (5 years)	531.0	461.1	633.7
0.1000 (10 years)	662.3	563.7	823.7
0.0400 (25 years)	849.0	700.9	1116.0
0.0200 (50 years)	1004.0	809.6	1373.0
0.0100 (100 years)	1173.0	924.4	1668.0
0.0050 (200 years)	1359.0	1047.0	2004.0
0.0020 (500 years)	1632.0	1221.0	2522.0
0.6667 (1.50 years)	299.2		
0.4292 (2.33 years)	388.3		

Lower Peninsula

04113000

Grand River at Lansing, MI

Number of peaks in record: 104

Number of peaks in analysis: 104

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1599.0	1344.0	1844.0
0.9900 (1.01 years)	1774.0	1509.0	2028.0
0.9500 (1.05 years)	2379.0	2087.0	2656.0
0.9000 (1.11 years)	2797.0	2493.0	3088.0
0.8000 (1.25 years)	3421.0	3100.0	3734.0
0.5000 (2 years)	5109.0	4717.0	5531.0
0.2000 (5 years)	7793.0	7143.0	8595.0
0.1000 (10 years)	9803.0	8868.0	11020.0
0.0400 (25 years)	12600.0	11200.0	14530.0
0.0200 (50 years)	14880.0	13040.0	17460.0
0.0100 (100 years)	17320.0	14980.0	20670.0
0.0050 (200 years)	19940.0	17030.0	24190.0
0.0020 (500 years)	23710.0	19940.0	29370.0
0.6667 (1.50 years)	4151.6		
0.4292 (2.33 years)	5571.0		

04114000

Grand River at Portland, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	3135.0	2697.0	3516.0
0.9000 (1.11 years)	3533.0	3100.0	3917.0
0.8000 (1.25 years)	4092.0	3665.0	4484.0
0.5000 (2 years)	5449.0	5000.0	5937.0
0.2000 (5 years)	7310.0	6672.0	8158.0
0.1000 (10 years)	8549.0	7708.0	9755.0
0.0400 (25 years)	10130.0	8971.0	11880.0
0.0200 (50 years)	11310.0	9893.0	13540.0
0.0100 (100 years)	12500.0	10800.0	15250.0
0.0050 (200 years)	13710.0	11710.0	17020.0
0.0020 (500 years)	15350.0	12920.0	19480.0
0.6667 (1.50 years)	4703.0		
0.4292 (2.33 years)	5793.5		

Lower Peninsula

04114498

Looking Glass River near Eagle, MI

Number of peaks in record: 55

Number of peaks in analysis: 55

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	536.7	443.8	622.4
0.9000 (1.11 years)	655.0	557.6	745.6
0.8000 (1.25 years)	825.4	723.1	923.8
0.5000 (2 years)	1246.0	1122.0	1386.0
0.2000 (5 years)	1810.0	1616.0	2070.0
0.1000 (10 years)	2167.0	1910.0	2534.0
0.0400 (25 years)	2598.0	2252.0	3116.0
0.0200 (50 years)	2903.0	2488.0	3543.0
0.0100 (100 years)	3196.0	2711.0	3960.0
0.0050 (200 years)	3479.0	2924.0	4370.0
0.0020 (500 years)	3840.0	3191.0	4904.0
0.6667 (1.50 years)	1014.0		
0.4292 (2.33 years)	1355.1		

04114500

Looking Glass River at Hinman Road near Eagle, MI

Number of peaks in record: 52

Number of peaks in analysis: 52

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	532.1	436.3	620.4
0.9000 (1.11 years)	651.7	550.9	745.1
0.8000 (1.25 years)	824.0	718.0	925.8
0.5000 (2 years)	1249.0	1121.0	1395.0
0.2000 (5 years)	1818.0	1616.0	2090.0
0.1000 (10 years)	2177.0	1910.0	2561.0
0.0400 (25 years)	2608.0	2250.0	3151.0
0.0200 (50 years)	2912.0	2484.0	3580.0
0.0100 (100 years)	3203.0	2704.0	4000.0
0.0050 (200 years)	3482.0	2912.0	4411.0
0.0020 (500 years)	3838.0	3174.0	4943.0
0.6667 (1.50 years)	1014.7		
0.4292 (2.33 years)	1359.7		

Lower Peninsula

04115000

Maple River at Maple Rapids, MI

Number of peaks in record: 60

Number of peaks in analysis: 59

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	342.4	238.8	450.0
0.9900 (1.01 years)	418.2	301.3	537.1
0.9500 (1.05 years)	706.2	551.7	857.7
0.9000 (1.11 years)	921.5	747.1	1092.0
0.8000 (1.25 years)	1257.0	1057.0	1457.0
0.5000 (2 years)	2193.0	1911.0	2519.0
0.2000 (5 years)	3653.0	3147.0	4352.0
0.1000 (10 years)	4685.0	3966.0	5747.0
0.0400 (25 years)	6028.0	4991.0	7653.0
0.0200 (50 years)	7044.0	5742.0	9150.0
0.0100 (100 years)	8064.0	6482.0	10690.0
0.0050 (200 years)	9093.0	7215.0	12290.0
0.0020 (500 years)	10470.0	8175.0	14460.0
0.6667 (1.50 years)	1658.3		
0.4292 (2.33 years)	2457.3		

04116000

Grand River at Ionia, MI

Number of peaks in record: 56

Number of peaks in analysis: 56

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	5373.0	4537.0	6133.0
0.9000 (1.11 years)	6420.0	5562.0	7207.0
0.8000 (1.25 years)	7897.0	7017.0	8733.0
0.5000 (2 years)	11440.0	10420.0	12570.0
0.2000 (5 years)	16030.0	14480.0	18070.0
0.1000 (10 years)	18880.0	16860.0	21710.0
0.0400 (25 years)	22280.0	19600.0	26220.0
0.0200 (50 years)	24660.0	21480.0	29480.0
0.0100 (100 years)	26940.0	23240.0	32640.0
0.0050 (200 years)	29130.0	24910.0	35740.0
0.0020 (500 years)	31910.0	27010.0	39750.0
0.6667 (1.50 years)	9499.7		
0.4292 (2.33 years)	12335.0		

Lower Peninsula

04116500

Flat River at Smyrna, MI

Number of peaks in record: 48

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	798.8	653.0	922.9
0.9900 (1.01 years)	841.8	695.8	965.9
0.9500 (1.05 years)	985.4	840.6	1110.0
0.9000 (1.11 years)	1081.0	938.5	1206.0
0.8000 (1.25 years)	1221.0	1081.0	1348.0
0.5000 (2 years)	1583.0	1440.0	1737.0
0.2000 (5 years)	2132.0	1934.0	2403.0
0.1000 (10 years)	2531.0	2262.0	2935.0
0.0400 (25 years)	3077.0	2689.0	3707.0
0.0200 (50 years)	3515.0	3018.0	4355.0
0.0100 (100 years)	3980.0	3359.0	5067.0
0.0050 (200 years)	4477.0	3715.0	5853.0
0.0020 (500 years)	5189.0	4213.0	7018.0
0.6667 (1.50 years)	1380.3		
0.4292 (2.33 years)	1677.7		

04117000

Quaker Brook near Nashville, MI

Number of peaks in record: 50

Number of peaks in analysis: 50

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	26.7	18.8	34.6
0.9900 (1.01 years)	31.6	23.0	40.1
0.9500 (1.05 years)	49.4	38.7	59.6
0.9000 (1.11 years)	62.1	50.5	73.3
0.8000 (1.25 years)	81.5	68.6	94.2
0.5000 (2 years)	134.0	117.0	153.5
0.2000 (5 years)	214.2	185.2	254.7
0.1000 (10 years)	270.7	230.0	332.0
0.0400 (25 years)	344.7	286.1	438.6
0.0200 (50 years)	401.1	327.6	523.3
0.0100 (100 years)	458.4	368.8	611.7
0.0050 (200 years)	516.7	409.9	704.1
0.0020 (500 years)	595.6	464.4	832.4
0.6667 (1.50 years)	104.3		
0.4292 (2.33 years)	148.5		

Lower Peninsula

04117500

Thornapple River near Hastings, MI

Number of peaks in record: 60

Number of peaks in analysis: 60

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1018.0	852.1	1172.0
0.9000 (1.11 years)	1215.0	1042.0	1377.0
0.8000 (1.25 years)	1504.0	1322.0	1679.0
0.5000 (2 years)	2250.0	2032.0	2493.0
0.2000 (5 years)	3348.0	2999.0	3810.0
0.1000 (10 years)	4112.0	3630.0	4792.0
0.0400 (25 years)	5110.0	4424.0	6136.0
0.0200 (50 years)	5875.0	5015.0	7202.0
0.0100 (100 years)	6657.0	5606.0	8318.0
0.0050 (200 years)	7459.0	6203.0	9489.0
0.0020 (500 years)	8555.0	7005.0	11130.0
0.6667 (1.50 years)	1832.4		
0.4292 (2.33 years)	2449.4		

04118000

Thornapple River near Caledonia, MI

Number of peaks in record: 59

Number of peaks in analysis: 58

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1444.0	1207.0	1663.0
0.9000 (1.11 years)	1753.0	1505.0	1983.0
0.8000 (1.25 years)	2195.0	1936.0	2443.0
0.5000 (2 years)	3279.0	2968.0	3627.0
0.2000 (5 years)	4724.0	4240.0	5364.0
0.1000 (10 years)	5638.0	4998.0	6539.0
0.0400 (25 years)	6739.0	5880.0	8009.0
0.0200 (50 years)	7520.0	6490.0	9083.0
0.0100 (100 years)	8269.0	7066.0	10130.0
0.0050 (200 years)	8993.0	7615.0	11170.0
0.0020 (500 years)	9919.0	8307.0	12510.0
0.6667 (1.50 years)	2681.6		
0.4292 (2.33 years)	3558.8		

Lower Peninsula

04118500

Rogue River near Rockford, MI

Number of peaks in record: 48

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	515.3	410.2	609.0
0.9900 (1.01 years)	565.5	458.1	660.5
0.9500 (1.05 years)	729.2	618.4	827.0
0.9000 (1.11 years)	835.2	724.2	934.4
0.8000 (1.25 years)	984.5	873.7	1087.0
0.5000 (2 years)	1349.0	1229.0	1481.0
0.2000 (5 years)	1849.0	1674.0	2084.0
0.1000 (10 years)	2181.0	1950.0	2516.0
0.0400 (25 years)	2601.0	2284.0	3089.0
0.0200 (50 years)	2915.0	2526.0	3533.0
0.0100 (100 years)	3230.0	2764.0	3989.0
0.0050 (200 years)	3547.0	3000.0	4460.0
0.0020 (500 years)	3975.0	3312.0	5108.0
0.6667 (1.50 years)	1148.3		
0.4292 (2.33 years)	1442.0		

04119000

Grand River at Grand Rapids, MI

Number of peaks in record: 104

Number of peaks in analysis: 104

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9900 (1.01 years)	6306.0	5413.0	7148.0
0.9500 (1.05 years)	8494.0	7529.0	9398.0
0.9000 (1.11 years)	9961.0	8967.0	10900.0
0.8000 (1.25 years)	12090.0	11060.0	13080.0
0.5000 (2 years)	17530.0	16320.0	18840.0
0.2000 (5 years)	25490.0	23550.0	27860.0
0.1000 (10 years)	31020.0	28350.0	34470.0
0.0400 (25 years)	38280.0	34450.0	43420.0
0.0200 (50 years)	43860.0	39050.0	50480.0
0.0100 (100 years)	49590.0	43690.0	57860.0
0.0050 (200 years)	55490.0	48410.0	65590.0
0.0020 (500 years)	63620.0	54820.0	76400.0
0.6667 (1.50 years)	14493.6		
0.4292 (2.33 years)	18972.8		

Lower Peninsula

04119160

Buck Creek at Wilson Avenue at Grandville, MI

Number of peaks in record: 31

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	244.3	174.2	307.8
0.9900 (1.01 years)	273.4	200.3	338.8
0.9500 (1.05 years)	371.0	291.6	440.9
0.9000 (1.11 years)	435.9	354.5	508.5
0.8000 (1.25 years)	529.2	446.0	606.8
0.5000 (2 years)	764.0	670.3	871.1
0.2000 (5 years)	1097.0	956.8	1302.0
0.1000 (10 years)	1323.0	1135.0	1625.0
0.0400 (25 years)	1613.0	1352.0	2066.0
0.0200 (50 years)	1831.0	1509.0	2415.0
0.0100 (100 years)	2052.0	1664.0	2779.0
0.0050 (200 years)	2276.0	1818.0	3161.0
0.0020 (500 years)	2579.0	2021.0	3693.0
0.6667 (1.50 years)	633.6		
0.4292 (2.33 years)	825.3		

04121000

Muskegon River near Merritt, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	311.7	240.2	372.1
0.9900 (1.01 years)	345.0	272.5	405.7
0.9500 (1.05 years)	449.3	377.2	509.4
0.9000 (1.11 years)	513.3	443.0	572.9
0.8000 (1.25 years)	598.8	531.4	659.4
0.5000 (2 years)	787.3	718.3	864.4
0.2000 (5 years)	1008.0	914.3	1138.0
0.1000 (10 years)	1134.0	1019.0	1308.0
0.0400 (25 years)	1278.0	1132.0	1509.0
0.0200 (50 years)	1374.0	1207.0	1649.0
0.0100 (100 years)	1463.0	1274.0	1780.0
0.0050 (200 years)	1546.0	1336.0	1905.0
0.0020 (500 years)	1648.0	1411.0	2062.0
0.6667 (1.50 years)	686.6		
0.4292 (2.33 years)	832.3		

Lower Peninsula

04121300

Clam River at Vogel Center, MI

Number of peaks in record: 38

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	183.5	138.1	224.5
0.9900 (1.01 years)	202.9	156.0	244.9
0.9500 (1.05 years)	267.7	217.8	311.9
0.9000 (1.11 years)	310.6	259.8	356.2
0.8000 (1.25 years)	372.4	320.7	420.6
0.5000 (2 years)	528.5	470.8	593.1
0.2000 (5 years)	753.5	667.1	874.7
0.1000 (10 years)	908.6	791.9	1087.0
0.0400 (25 years)	1111.0	946.9	1381.0
0.0200 (50 years)	1266.0	1062.0	1615.0
0.0100 (100 years)	1424.0	1176.0	1863.0
0.0050 (200 years)	1587.0	1291.0	2126.0
0.0020 (500 years)	1811.0	1446.0	2496.0
0.6667 (1.50 years)	441.6		
0.4292 (2.33 years)	569.4		

04121500

Muskegon River at Evart, MI

Number of peaks in record: 72

Number of peaks in analysis: 71

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1483.0	1240.0	1706.0
0.9900 (1.01 years)	1648.0	1398.0	1874.0
0.9500 (1.05 years)	2180.0	1922.0	2412.0
0.9000 (1.11 years)	2519.0	2261.0	2754.0
0.8000 (1.25 years)	2989.0	2732.0	3232.0
0.5000 (2 years)	4096.0	3812.0	4403.0
0.2000 (5 years)	5524.0	5108.0	6047.0
0.1000 (10 years)	6418.0	5877.0	7138.0
0.0400 (25 years)	7497.0	6776.0	8498.0
0.0200 (50 years)	8267.0	7405.0	9493.0
0.0100 (100 years)	9012.0	8004.0	10470.0
0.0050 (200 years)	9739.0	8582.0	11440.0
0.0020 (500 years)	10680.0	9321.0	12710.0
0.6667 (1.50 years)	3493.4		
0.4292 (2.33 years)	4372.6		

Lower Peninsula

04121900

Little Muskegon River near Morley, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	239.8	179.9	292.2
0.9900 (1.01 years)	258.3	197.3	311.4
0.9500 (1.05 years)	320.7	257.4	375.8
0.9000 (1.11 years)	362.7	298.8	419.2
0.8000 (1.25 years)	424.3	359.9	483.6
0.5000 (2 years)	586.7	517.2	664.2
0.2000 (5 years)	838.0	736.0	985.8
0.1000 (10 years)	1023.0	882.6	1250.0
0.0400 (25 years)	1279.0	1074.0	1641.0
0.0200 (50 years)	1486.0	1221.0	1975.0
0.0100 (100 years)	1707.0	1374.0	2348.0
0.0050 (200 years)	1944.0	1534.0	2763.0
0.0020 (500 years)	2286.0	1758.0	3386.0
0.6667 (1.50 years)	495.4		
0.4292 (2.33 years)	630.0		

04122000

Muskegon River at Newaygo, MI

Number of peaks in record: 71

Number of peaks in analysis: 68

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	3121.0	2704.0	3493.0
0.9900 (1.01 years)	3300.0	2882.0	3673.0
0.9500 (1.05 years)	3898.0	3481.0	4272.0
0.9000 (1.11 years)	4297.0	3884.0	4673.0
0.8000 (1.25 years)	4877.0	4468.0	5259.0
0.5000 (2 years)	6381.0	5950.0	6837.0
0.2000 (5 years)	8661.0	8039.0	9440.0
0.1000 (10 years)	10320.0	9462.0	11460.0
0.0400 (25 years)	12580.0	11340.0	14340.0
0.0200 (50 years)	14390.0	12800.0	16720.0
0.0100 (100 years)	16310.0	14320.0	19310.0
0.0050 (200 years)	18370.0	15910.0	22130.0
0.0020 (500 years)	21320.0	18160.0	26270.0
0.6667 (1.50 years)	5539.5		
0.4292 (2.33 years)	6775.2		

Lower Peninsula

04122100 **Bear Creek near Muskegon, MI**

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	88.3	69.4	105.9
0.9000 (1.11 years)	104.3	84.4	122.9
0.8000 (1.25 years)	128.6	107.4	148.9
0.5000 (2 years)	195.7	170.2	224.7
0.2000 (5 years)	306.4	264.7	366.0
0.1000 (10 years)	391.7	331.6	486.3
0.0400 (25 years)	513.4	421.9	669.9
0.0200 (50 years)	614.5	493.8	830.9
0.0100 (100 years)	724.7	569.9	1014.0
0.0050 (200 years)	845.0	650.7	1221.0
0.0020 (500 years)	1022.0	765.9	1537.0
0.6667 (1.50 years)	157.4		
0.4292 (2.33 years)	214.4		

04122200 **White River near Whitehall, MI**

Number of peaks in record: 47

Number of peaks in analysis: 47

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	514.6	393.3	628.3
0.9900 (1.01 years)	568.2	442.1	685.5
0.9500 (1.05 years)	752.9	614.9	880.1
0.9000 (1.11 years)	880.5	736.9	1014.0
0.8000 (1.25 years)	1071.0	920.7	1215.0
0.5000 (2 years)	1588.0	1410.0	1786.0
0.2000 (5 years)	2415.0	2131.0	2806.0
0.1000 (10 years)	3039.0	2634.0	3644.0
0.0400 (25 years)	3915.0	3306.0	4891.0
0.0200 (50 years)	4631.0	3836.0	5958.0
0.0100 (100 years)	5402.0	4392.0	7149.0
0.0050 (200 years)	6236.0	4978.0	8477.0
0.0020 (500 years)	7445.0	5808.0	10470.0
0.6667 (1.50 years)	1294.4		
0.4292 (2.33 years)	1729.4		

Lower Peninsula

0412230

North Branch Pentwater River near Pentwater, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	79.9	55.2	102.9
0.9900 (1.01 years)	89.2	63.3	113.0
0.9500 (1.05 years)	121.4	92.6	147.5
0.9000 (1.11 years)	143.6	113.4	171.0
0.8000 (1.25 years)	176.4	144.9	206.3
0.5000 (2 years)	264.2	227.3	306.8
0.2000 (5 years)	400.8	342.8	487.6
0.1000 (10 years)	500.9	419.9	635.5
0.0400 (25 years)	637.9	519.4	853.2
0.0200 (50 years)	747.3	595.5	1038.0
0.0100 (100 years)	863.0	673.4	1241.0
0.0050 (200 years)	985.7	753.9	1465.0
0.0020 (500 years)	1160.0	864.9	1796.0
0.6667 (1.50 years)	214.6		
0.4292 (2.33 years)	288.1		

04122500

Pere Marquette River at Scottville, MI

Number of peaks in record: 65

Number of peaks in analysis: 65

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	783.4	661.5	892.9
0.9900 (1.01 years)	852.3	728.9	962.7
0.9500 (1.05 years)	1075.0	949.9	1186.0
0.9000 (1.11 years)	1217.0	1093.0	1329.0
0.8000 (1.25 years)	1416.0	1293.0	1530.0
0.5000 (2 years)	1896.0	1764.0	2037.0
0.2000 (5 years)	2546.0	2356.0	2787.0
0.1000 (10 years)	2975.0	2723.0	3313.0
0.0400 (25 years)	3514.0	3170.0	4000.0
0.0200 (50 years)	3915.0	3495.0	4526.0
0.0100 (100 years)	4317.0	3814.0	5062.0
0.0050 (200 years)	4722.0	4132.0	5613.0
0.0020 (500 years)	5266.0	4552.0	6365.0
0.6667 (1.50 years)	1632.4		
0.4292 (2.33 years)	2017.2		

Lower Peninsula

04123000

Big Sable River near Freesoil, MI

Number of peaks in record: 33

Number of peaks in analysis: 33

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	147.3	116.3	173.2
0.9900 (1.01 years)	162.2	131.0	188.0
0.9500 (1.05 years)	207.9	177.6	232.9
0.9000 (1.11 years)	235.4	206.3	259.9
0.8000 (1.25 years)	271.6	244.0	296.1
0.5000 (2 years)	349.0	321.5	379.6
0.2000 (5 years)	436.1	399.6	486.2
0.1000 (10 years)	484.6	440.1	550.3
0.0400 (25 years)	538.1	483.1	623.8
0.0200 (50 years)	573.3	510.7	673.7
0.0100 (100 years)	605.3	535.4	719.8
0.0050 (200 years)	634.7	557.8	762.8
0.0020 (500 years)	670.4	584.6	815.8
0.6667 (1.50 years)	308.0		
0.4292 (2.33 years)	367.2		

04123500

Manistee River near Grayling, MI

Number of peaks in record: 40

Number of peaks in analysis: 40

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	206.0	188.8	219.2
0.9900 (1.01 years)	213.7	197.4	226.3
0.9500 (1.05 years)	235.5	221.7	246.4
0.9000 (1.11 years)	247.6	235.2	257.7
0.8000 (1.25 years)	262.7	251.8	272.0
0.5000 (2 years)	292.7	283.2	302.6
0.2000 (5 years)	324.1	312.9	338.2
0.1000 (10 years)	341.0	327.9	358.7
0.0400 (25 years)	359.4	343.6	381.5
0.0200 (50 years)	371.4	353.8	396.7
0.0100 (100 years)	382.3	362.8	410.7
0.0050 (200 years)	392.3	371.1	423.7
0.0020 (500 years)	404.6	381.2	439.7
0.6667 (1.50 years)	277.1		
0.4292 (2.33 years)	299.3		

Lower Peninsula

04124000

Manistee River near Sherman, MI

Number of peaks in record: 85

Number of peaks in analysis: 84

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1414.0	1302.0	1510.0
0.9900 (1.01 years)	1489.0	1380.0	1582.0
0.9500 (1.05 years)	1712.0	1614.0	1796.0
0.9000 (1.11 years)	1841.0	1750.0	1921.0
0.8000 (1.25 years)	2007.0	1924.0	2083.0
0.5000 (2 years)	2359.0	2280.0	2441.0
0.2000 (5 years)	2757.0	2656.0	2877.0
0.1000 (10 years)	2985.0	2862.0	3139.0
0.0400 (25 years)	3243.0	3089.0	3442.0
0.0200 (50 years)	3419.0	3242.0	3651.0
0.0100 (100 years)	3583.0	3383.0	3849.0
0.0050 (200 years)	3738.0	3515.0	4037.0
0.0020 (500 years)	3933.0	3680.0	4276.0
0.6667 (1.50 years)	2173.5		
0.4292 (2.33 years)	2440.0		

04124500

East Branch Pine River near Tustin, MI

Number of peaks in record: 48

Number of peaks in analysis: 48

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	72.1	50.7	93.6
0.9900 (1.01 years)	84.2	60.9	107.3
0.9500 (1.05 years)	128.1	99.5	155.5
0.9000 (1.11 years)	159.8	128.6	189.8
0.8000 (1.25 years)	208.4	173.8	242.6
0.5000 (2 years)	344.1	298.5	396.8
0.2000 (5 years)	563.3	483.8	675.5
0.1000 (10 years)	726.3	611.8	901.6
0.0400 (25 years)	950.0	779.3	1230.0
0.0200 (50 years)	1128.0	908.1	1505.0
0.0100 (100 years)	1316.0	1040.0	1803.0
0.0050 (200 years)	1514.0	1176.0	2127.0
0.0020 (500 years)	1792.0	1363.0	2598.0
0.6667 (1.50 years)	266.6		
0.4292 (2.33 years)	382.3		

Lower Peninsula

04125460

Pine River at High School Bridge near Hoxeyville

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	423.2	334.0	501.1
0.9900 (1.01 years)	459.6	369.0	538.3
0.9500 (1.05 years)	578.0	485.8	658.0
0.9000 (1.11 years)	654.7	562.8	735.5
0.8000 (1.25 years)	762.8	671.9	846.3
0.5000 (2 years)	1029.0	932.5	1135.0
0.2000 (5 years)	1400.0	1262.0	1589.0
0.1000 (10 years)	1651.0	1468.0	1923.0
0.0400 (25 years)	1973.0	1720.0	2375.0
0.0200 (50 years)	2217.0	1905.0	2732.0
0.0100 (100 years)	2464.0	2089.0	3105.0
0.0050 (200 years)	2717.0	2273.0	3495.0
0.0020 (500 years)	3062.0	2519.0	4043.0
0.6667 (1.50 years)	882.1		
0.4292 (2.33 years)	1097.0		

04125500

Pine River near Hoxeyville, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	427.8	322.9	518.2
0.9900 (1.01 years)	465.6	358.9	557.0
0.9500 (1.05 years)	589.0	479.6	682.4
0.9000 (1.11 years)	669.1	559.9	763.9
0.8000 (1.25 years)	782.5	674.3	880.8
0.5000 (2 years)	1063.0	948.3	1190.0
0.2000 (5 years)	1455.0	1293.0	1687.0
0.1000 (10 years)	1721.0	1506.0	2059.0
0.0400 (25 years)	2063.0	1767.0	2569.0
0.0200 (50 years)	2323.0	1957.0	2974.0
0.0100 (100 years)	2587.0	2146.0	3400.0
0.0050 (200 years)	2857.0	2335.0	3849.0
0.0020 (500 years)	3226.0	2587.0	4482.0
0.6667 (1.50 years)	907.8		
0.4292 (2.33 years)	1134.3		

Lower Peninsula

04126000

Manistee River near Manistee, MI

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2628.0	2221.0	2965.0
0.9900 (1.01 years)	2835.0	2434.0	3167.0
0.9500 (1.05 years)	3461.0	3086.0	3771.0
0.9000 (1.11 years)	3829.0	3475.0	4129.0
0.8000 (1.25 years)	4308.0	3978.0	4601.0
0.5000 (2 years)	5322.0	5002.0	5668.0
0.2000 (5 years)	6460.0	6045.0	7001.0
0.1000 (10 years)	7099.0	6593.0	7802.0
0.0400 (25 years)	7810.0	7184.0	8724.0
0.0200 (50 years)	8285.0	7569.0	9354.0
0.0100 (100 years)	8721.0	7918.0	9942.0
0.0050 (200 years)	9126.0	8239.0	10500.0
0.0020 (500 years)	9624.0	8630.0	11190.0
0.6667 (1.50 years)	4786.6		
0.4292 (2.33 years)	5557.5		

04126200

Little Manistee River near Freesoil, MI

Number of peaks in record: 26

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	174.4	133.6	207.6
0.9900 (1.01 years)	190.9	149.9	223.8
0.9500 (1.05 years)	241.3	201.7	273.2
0.9000 (1.11 years)	271.8	233.7	303.0
0.8000 (1.25 years)	311.9	276.0	343.3
0.5000 (2 years)	399.1	363.9	438.5
0.2000 (5 years)	499.2	453.3	565.1
0.1000 (10 years)	556.4	500.2	644.2
0.0400 (25 years)	620.7	550.6	737.4
0.0200 (50 years)	663.9	583.4	802.1
0.0100 (100 years)	703.7	613.2	863.2
0.0050 (200 years)	740.8	640.5	921.3
0.0020 (500 years)	786.6	673.8	994.3
0.6667 (1.50 years)	352.8		
0.4292 (2.33 years)	419.6		

Lower Peninsula

04126600

Betsie River at US Highway 31 near Benzonia, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	484.0	430.0	526.5
0.9000 (1.11 years)	524.8	474.4	565.5
0.8000 (1.25 years)	577.6	531.7	617.1
0.5000 (2 years)	689.7	647.5	735.1
0.2000 (5 years)	817.0	764.7	888.1
0.1000 (10 years)	889.9	826.5	982.8
0.0400 (25 years)	972.4	893.8	1095.0
0.0200 (50 years)	1028.0	938.3	1173.0
0.0100 (100 years)	1081.0	979.1	1247.0
0.0050 (200 years)	1130.0	1017.0	1318.0
0.0020 (500 years)	1192.0	1064.0	1409.0
0.6667 (1.50 years)	630.5		
0.4292 (2.33 years)	715.6		

04127000

Boardman River near Mayfield, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	302.8	249.5	347.6
0.9900 (1.01 years)	323.1	269.8	367.6
0.9500 (1.05 years)	387.2	335.4	430.7
0.9000 (1.11 years)	427.5	377.2	470.6
0.8000 (1.25 years)	483.3	435.0	526.6
0.5000 (2 years)	616.0	567.8	667.9
0.2000 (5 years)	793.3	728.3	880.9
0.1000 (10 years)	909.3	825.2	1032.0
0.0400 (25 years)	1055.0	941.9	1232.0
0.0200 (50 years)	1164.0	1026.0	1386.0
0.0100 (100 years)	1272.0	1108.0	1545.0
0.0050 (200 years)	1382.0	1190.0	1708.0
0.0020 (500 years)	1530.0	1298.0	1933.0
0.6667 (1.50 years)	543.5		
0.4292 (2.33 years)	649.0		

Lower Peninsula

04127800

Jordan River near East Jordan, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	369.8	314.0	415.6
0.9900 (1.01 years)	390.9	335.7	436.1
0.9500 (1.05 years)	456.6	404.4	499.8
0.9000 (1.11 years)	497.1	447.2	539.3
0.8000 (1.25 years)	552.3	505.3	594.0
0.5000 (2 years)	680.2	634.8	728.5
0.2000 (5 years)	845.2	786.1	923.5
0.1000 (10 years)	950.3	875.3	1058.0
0.0400 (25 years)	1080.0	980.6	1231.0
0.0200 (50 years)	1175.0	1056.0	1362.0
0.0100 (100 years)	1268.0	1128.0	1494.0
0.0050 (200 years)	1361.0	1199.0	1628.0
0.0020 (500 years)	1485.0	1293.0	1811.0
0.6667 (1.50 years)	610.9		
0.4292 (2.33 years)	711.4		

04127918

Pine River near Rudyard, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1122.0	879.3	1327.0
0.9900 (1.01 years)	1220.0	974.5	1425.0
0.9500 (1.05 years)	1527.0	1284.0	1731.0
0.9000 (1.11 years)	1720.0	1482.0	1923.0
0.8000 (1.25 years)	1984.0	1754.0	2191.0
0.5000 (2 years)	2600.0	2365.0	2858.0
0.2000 (5 years)	3391.0	3071.0	3838.0
0.1000 (10 years)	3890.0	3481.0	4512.0
0.0400 (25 years)	4498.0	3958.0	5377.0
0.0200 (50 years)	4937.0	4291.0	6025.0
0.0100 (100 years)	5366.0	4610.0	6674.0
0.0050 (200 years)	5788.0	4919.0	7330.0
0.0020 (500 years)	6342.0	5317.0	8210.0
0.6667 (1.50 years)	2265.4		
0.4292 (2.33 years)	2751.4		

Lower Peninsula

04127997

Sturgeon River at Wolverine, MI

Number of peaks in record: 62

Number of peaks in analysis: 62

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	472.2	433.0	505.8
0.9000 (1.11 years)	514.4	477.2	547.0
0.8000 (1.25 years)	570.8	535.9	602.5
0.5000 (2 years)	696.7	662.7	732.5
0.2000 (5 years)	850.9	806.1	906.3
0.1000 (10 years)	944.8	888.5	1019.0
0.0400 (25 years)	1057.0	983.8	1156.0
0.0200 (50 years)	1136.0	1050.0	1256.0
0.0100 (100 years)	1212.0	1113.0	1354.0
0.0050 (200 years)	1287.0	1174.0	1451.0
0.0020 (500 years)	1383.0	1251.0	1577.0
0.6667 (1.50 years)	629.2		
0.4292 (2.33 years)	726.8		

04128000

Sturgeon River near Wolverine, MI

Number of peaks in record: 52

Number of peaks in analysis: 52

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	471.5	427.7	508.7
0.9000 (1.11 years)	514.4	472.7	550.5
0.8000 (1.25 years)	571.8	532.6	607.0
0.5000 (2 years)	700.3	662.3	740.5
0.2000 (5 years)	858.4	808.6	921.5
0.1000 (10 years)	955.1	892.6	1040.0
0.0400 (25 years)	1071.0	989.5	1185.0
0.0200 (50 years)	1152.0	1057.0	1291.0
0.0100 (100 years)	1232.0	1121.0	1396.0
0.0050 (200 years)	1309.0	1183.0	1499.0
0.0020 (500 years)	1409.0	1262.0	1635.0
0.6667 (1.50 years)	631.3		
0.4292 (2.33 years)	731.1		

Lower Peninsula

04128500

Indian River at Indian River, MI

Number of peaks in record: 41

Number of peaks in analysis: 41

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	518.7	454.1	570.6
0.9900 (1.01 years)	548.0	485.2	598.6
0.9500 (1.05 years)	635.1	578.5	681.2
0.9000 (1.11 years)	685.7	633.0	729.6
0.8000 (1.25 years)	751.3	703.1	793.5
0.5000 (2 years)	890.0	845.3	937.3
0.2000 (5 years)	1047.0	991.5	1120.0
0.1000 (10 years)	1138.0	1070.0	1231.0
0.0400 (25 years)	1240.0	1155.0	1362.0
0.0200 (50 years)	1309.0	1212.0	1453.0
0.0100 (100 years)	1374.0	1265.0	1539.0
0.0050 (200 years)	1435.0	1314.0	1622.0
0.0020 (500 years)	1512.0	1375.0	1727.0
0.6667 (1.50 years)	816.7		
0.4292 (2.33 years)	922.0		

04128990

Pigeon River at Sturgeon Valley Road near Vanderbilt

Number of peaks in record: 54

Number of peaks in analysis: 52

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	189.2	158.0	216.7
0.9900 (1.01 years)	204.1	172.7	231.7
0.9500 (1.05 years)	252.0	220.6	279.5
0.9000 (1.11 years)	282.6	251.6	310.1
0.8000 (1.25 years)	325.3	295.0	353.3
0.5000 (2 years)	428.6	396.8	462.9
0.2000 (5 years)	569.5	524.5	627.9
0.1000 (10 years)	663.0	603.7	745.4
0.0400 (25 years)	781.7	700.6	901.0
0.0200 (50 years)	870.7	771.2	1022.0
0.0100 (100 years)	960.3	841.0	1146.0
0.0050 (200 years)	1051.0	910.7	1274.0
0.0020 (500 years)	1174.0	1003.0	1451.0
0.6667 (1.50 years)	371.9		
0.4292 (2.33 years)	454.7		

Lower Peninsula

04129000

Pigeon River near Vanderbilt, MI

Number of peaks in record: 40

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	174.8	139.1	205.7
0.9900 (1.01 years)	189.5	153.5	220.8
0.9500 (1.05 years)	237.5	200.9	269.1
0.9000 (1.11 years)	268.3	232.0	300.1
0.8000 (1.25 years)	311.6	275.9	344.4
0.5000 (2 years)	417.4	379.7	458.6
0.2000 (5 years)	563.2	509.7	635.8
0.1000 (10 years)	660.6	590.2	764.7
0.0400 (25 years)	785.0	688.3	937.8
0.0200 (50 years)	878.7	759.8	1073.0
0.0100 (100 years)	973.3	830.5	1214.0
0.0050 (200 years)	1070.0	901.1	1360.0
0.0020 (500 years)	1200.0	995.0	1564.0
0.6667 (1.50 years)	359.1		
0.4292 (2.33 years)	444.3		

04129500

Pigeon River at Afton, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	231.0	178.7	277.1
0.9900 (1.01 years)	259.1	205.3	305.9
0.9500 (1.05 years)	348.9	293.6	396.5
0.9000 (1.11 years)	405.1	350.3	453.0
0.8000 (1.25 years)	481.4	427.7	530.7
0.5000 (2 years)	653.1	595.7	717.2
0.2000 (5 years)	858.1	777.7	967.7
0.1000 (10 years)	977.7	876.8	1125.0
0.0400 (25 years)	1114.0	985.3	1312.0
0.0200 (50 years)	1206.0	1057.0	1441.0
0.0100 (100 years)	1291.0	1122.0	1564.0
0.0050 (200 years)	1370.0	1182.0	1681.0
0.0020 (500 years)	1469.0	1256.0	1827.0
0.6667 (1.50 years)	560.9		
0.4292 (2.33 years)	694.7		

Lower Peninsula

04130000

Cheboygan River near Cheboygan, MI

Number of peaks in record: 40

Number of peaks in analysis: 40

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	948.2	861.0	1016.0
0.9900 (1.01 years)	986.6	903.1	1051.0
0.9500 (1.05 years)	1097.0	1025.0	1154.0
0.9000 (1.11 years)	1159.0	1094.0	1212.0
0.8000 (1.25 years)	1237.0	1179.0	1287.0
0.5000 (2 years)	1396.0	1345.0	1449.0
0.2000 (5 years)	1567.0	1506.0	1644.0
0.1000 (10 years)	1661.0	1589.0	1758.0
0.0400 (25 years)	1765.0	1678.0	1889.0
0.0200 (50 years)	1834.0	1736.0	1977.0
0.0100 (100 years)	1897.0	1788.0	2059.0
0.0050 (200 years)	1956.0	1836.0	2136.0
0.0020 (500 years)	2029.0	1895.0	2233.0
0.6667 (1.50 years)	1312.9		
0.4292 (2.33 years)	1431.3		

04130500

Black River near Tower, MI

Number of peaks in record: 58

Number of peaks in analysis: 48

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	570.3	485.2	642.1
0.9900 (1.01 years)	618.6	534.3	689.4
0.9500 (1.05 years)	764.3	685.3	830.9
0.9000 (1.11 years)	850.1	775.2	914.4
0.8000 (1.25 years)	961.5	891.6	1025.0
0.5000 (2 years)	1196.0	1127.0	1271.0
0.2000 (5 years)	1456.0	1366.0	1572.0
0.1000 (10 years)	1600.0	1490.0	1749.0
0.0400 (25 years)	1759.0	1623.0	1951.0
0.0200 (50 years)	1863.0	1709.0	2087.0
0.0100 (100 years)	1958.0	1786.0	2212.0
0.0050 (200 years)	2046.0	1856.0	2329.0
0.0020 (500 years)	2152.0	1941.0	2473.0
0.6667 (1.50 years)	1072.5		
0.4292 (2.33 years)	1250.4		

Lower Peninsula

04131500 **Rainy River near Ocqueoc, MI**

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.5000 (2 years)	432.3	379.5	493.0
0.2000 (5 years)	611.6	533.6	726.4
0.1000 (10 years)	727.6	624.9	892.6
0.0400 (25 years)	870.5	732.1	1110.0
0.0200 (50 years)	974.3	807.3	1275.0
0.0100 (100 years)	1076.0	879.2	1442.0
0.0050 (200 years)	1176.0	948.7	1610.0
0.0020 (500 years)	1307.0	1038.0	1838.0
0.6667 (1.50 years)	359.1		
0.4292 (2.33 years)	466.4		

04132000 **Black River near Cheboygan, MI**

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	625.0	488.3	742.4
0.9900 (1.01 years)	685.0	546.4	803.1
0.9500 (1.05 years)	876.0	736.5	994.6
0.9000 (1.11 years)	996.2	858.6	1115.0
0.8000 (1.25 years)	1161.0	1027.0	1283.0
0.5000 (2 years)	1545.0	1406.0	1700.0
0.2000 (5 years)	2037.0	1844.0	2305.0
0.1000 (10 years)	2345.0	2097.0	2716.0
0.0400 (25 years)	2717.0	2390.0	3239.0
0.0200 (50 years)	2984.0	2594.0	3627.0
0.0100 (100 years)	3243.0	2788.0	4013.0
0.0050 (200 years)	3496.0	2975.0	4399.0
0.0020 (500 years)	3826.0	3214.0	4913.0
0.6667 (1.50 years)	1336.7		
0.4292 (2.33 years)	1640.3		

Lower Peninsula

04132500

Thunder Bay River near Hillman, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	468.9	397.0	530.1
0.9000 (1.11 years)	537.2	466.6	598.2
0.8000 (1.25 years)	629.4	560.9	691.5
0.5000 (2 years)	836.5	765.2	915.7
0.2000 (5 years)	1086.0	987.6	1220.0
0.1000 (10 years)	1233.0	1110.0	1415.0
0.0400 (25 years)	1403.0	1246.0	1648.0
0.0200 (50 years)	1520.0	1336.0	1813.0
0.0100 (100 years)	1629.0	1419.0	1971.0
0.0050 (200 years)	1732.0	1497.0	2124.0
0.0020 (500 years)	1861.0	1593.0	2318.0
0.6667 (1.50 years)	725.2		
0.4292 (2.33 years)	886.6		

04133501

Thunder Bay River at Herron Road near Bolton, MI

Number of peaks in record: 37

Number of peaks in analysis: 37

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	552.0	386.6	708.3
0.9900 (1.01 years)	648.0	470.1	812.7
0.9500 (1.05 years)	977.6	773.2	1161.0
0.9000 (1.11 years)	1198.0	985.0	1391.0
0.8000 (1.25 years)	1511.0	1290.0	1721.0
0.5000 (2 years)	2258.0	1997.0	2560.0
0.2000 (5 years)	3197.0	2804.0	3758.0
0.1000 (10 years)	3759.0	3252.0	4533.0
0.0400 (25 years)	4401.0	3746.0	5463.0
0.0200 (50 years)	4835.0	4071.0	6113.0
0.0100 (100 years)	5236.0	4365.0	6727.0
0.0050 (200 years)	5609.0	4635.0	7310.0
0.0020 (500 years)	6067.0	4962.0	8037.0
0.6667 (1.50 years)	1850.2		
0.4292 (2.33 years)	2446.6		

Lower Peninsula

04134000

North Branch Thunder Bay River near Bolton, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	706.8	567.0	830.4
0.9000 (1.11 years)	837.6	694.5	965.5
0.8000 (1.25 years)	1023.0	877.0	1159.0
0.5000 (2 years)	1472.0	1307.0	1659.0
0.2000 (5 years)	2070.0	1826.0	2417.0
0.1000 (10 years)	2451.0	2131.0	2945.0
0.0400 (25 years)	2916.0	2488.0	3623.0
0.0200 (50 years)	3251.0	2736.0	4131.0
0.0100 (100 years)	3576.0	2972.0	4638.0
0.0050 (200 years)	3894.0	3199.0	5146.0
0.0020 (500 years)	4308.0	3489.0	5821.0
0.6667 (1.50 years)	1225.1		
0.4292 (2.33 years)	1586.5		

04135500

Au Sable River at Grayling, MI

Number of peaks in record: 52

Number of peaks in analysis: 52

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	85.6	73.6	95.8
0.9900 (1.01 years)	92.5	80.6	102.6
0.9500 (1.05 years)	113.3	102.2	122.8
0.9000 (1.11 years)	125.7	115.1	134.8
0.8000 (1.25 years)	141.8	131.9	150.8
0.5000 (2 years)	176.2	166.4	186.7
0.2000 (5 years)	215.2	202.3	231.5
0.1000 (10 years)	237.2	221.4	258.5
0.0400 (25 years)	262.0	242.3	289.7
0.0200 (50 years)	278.6	256.0	311.1
0.0100 (100 years)	293.9	268.4	331.1
0.0050 (200 years)	308.2	280.0	350.0
0.0020 (500 years)	325.9	294.1	373.6
0.6667 (1.50 years)	158.0		
0.4292 (2.33 years)	184.2		

Lower Peninsula

04135600

East Branch Au Sable River at Grayling, MI

Number of peaks in record: 27

Number of peaks in analysis: 27

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	44.0	32.6	53.5
0.9900 (1.01 years)	48.6	37.0	58.2
0.9500 (1.05 years)	63.1	51.5	72.8
0.9000 (1.11 years)	72.2	60.7	81.9
0.8000 (1.25 years)	84.6	73.4	94.5
0.5000 (2 years)	112.7	101.3	125.5
0.2000 (5 years)	147.2	131.7	169.8
0.1000 (10 years)	168.1	148.5	199.0
0.0400 (25 years)	192.5	167.3	235.2
0.0200 (50 years)	209.4	180.0	261.3
0.0100 (100 years)	225.5	191.7	286.8
0.0050 (200 years)	241.0	202.8	311.8
0.0020 (500 years)	260.5	216.6	344.1
0.6667 (1.50 years)	97.5		
0.4292 (2.33 years)	119.5		

04135700

South Branch Au Sable River near Luzerne, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	218.8	168.2	262.9
0.9900 (1.01 years)	243.8	192.0	288.5
0.9500 (1.05 years)	323.6	270.7	368.9
0.9000 (1.11 years)	373.7	321.2	419.2
0.8000 (1.25 years)	441.8	390.5	488.6
0.5000 (2 years)	596.6	542.3	657.3
0.2000 (5 years)	785.6	709.8	890.2
0.1000 (10 years)	898.2	802.5	1041.0
0.0400 (25 years)	1029.0	905.8	1223.0
0.0200 (50 years)	1119.0	975.0	1352.0
0.0100 (100 years)	1203.0	1039.0	1476.0
0.0050 (200 years)	1283.0	1099.0	1597.0
0.0020 (500 years)	1384.0	1173.0	1750.0
0.6667 (1.50 years)	513.1		
0.4292 (2.33 years)	634.4		

Lower Peninsula

04136500

Au Sable River at Mio, MI

Number of peaks in record: 52

Number of peaks in analysis: 50

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	2191.0	2030.0	2325.0
0.9000 (1.11 years)	2326.0	2174.0	2454.0
0.8000 (1.25 years)	2507.0	2367.0	2631.0
0.5000 (2 years)	2923.0	2794.0	3057.0
0.2000 (5 years)	3452.0	3290.0	3653.0
0.1000 (10 years)	3785.0	3583.0	4055.0
0.0400 (25 years)	4192.0	3928.0	4564.0
0.0200 (50 years)	4488.0	4173.0	4944.0
0.0100 (100 years)	4780.0	4411.0	5324.0
0.0050 (200 years)	5070.0	4645.0	5707.0
0.0020 (500 years)	5454.0	4951.0	6222.0
0.6667 (1.50 years)	2698.6		
0.4292 (2.33 years)	3022.6		

04138000

East Branch Au Gres River near Mclvor, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	199.6	150.5	244.2
0.9000 (1.11 years)	248.7	196.4	296.5
0.8000 (1.25 years)	320.0	264.4	373.2
0.5000 (2 years)	497.5	429.7	577.9
0.2000 (5 years)	733.8	628.2	891.0
0.1000 (10 years)	881.3	742.7	1106.0
0.0400 (25 years)	1056.0	872.1	1374.0
0.0200 (50 years)	1178.0	959.5	1569.0
0.0100 (100 years)	1292.0	1040.0	1758.0
0.0050 (200 years)	1401.0	1116.0	1942.0
0.0020 (500 years)	1538.0	1208.0	2178.0
0.6667 (1.50 years)	399.4		
0.4292 (2.33 years)	543.7		

Lower Peninsula

04138500

Au Gres River at Cox Road near National City, MI

Number of peaks in record: 31

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	496.8	370.8	611.7
0.9000 (1.11 years)	622.4	487.6	746.0
0.8000 (1.25 years)	805.5	661.6	943.6
0.5000 (2 years)	1262.0	1085.0	1472.0
0.2000 (5 years)	1867.0	1591.0	2281.0
0.1000 (10 years)	2242.0	1881.0	2833.0
0.0400 (25 years)	2684.0	2206.0	3519.0
0.0200 (50 years)	2989.0	2424.0	4014.0
0.0100 (100 years)	3276.0	2625.0	4492.0
0.0050 (200 years)	3547.0	2811.0	4955.0
0.0020 (500 years)	3885.0	3039.0	5544.0
0.6667 (1.50 years)	1009.6		
0.4292 (2.33 years)	1380.4		

04138600

Gamble Creek at Lupton, MI

Number of peaks in record: 23

Number of peaks in analysis: 23

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	28.5	19.5	36.3
0.9900 (1.01 years)	31.4	22.1	39.4
0.9500 (1.05 years)	41.1	31.3	49.5
0.9000 (1.11 years)	47.6	37.6	56.2
0.8000 (1.25 years)	56.8	46.7	66.0
0.5000 (2 years)	80.1	69.2	92.7
0.2000 (5 years)	113.7	97.9	138.1
0.1000 (10 years)	136.8	115.7	173.5
0.0400 (25 years)	167.1	137.6	223.3
0.0200 (50 years)	190.3	153.6	263.8
0.0100 (100 years)	214.0	169.6	307.1
0.0050 (200 years)	238.5	185.5	353.5
0.0020 (500 years)	272.1	206.9	419.8
0.6667 (1.50 years)	67.1		
0.4292 (2.33 years)	86.2		

Lower Peninsula

04138700

Bixby Creek near Rose City, MI

Number of peaks in record: 27

Number of peaks in analysis: 27

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	23.7	15.4	31.7
0.9900 (1.01 years)	26.6	17.8	34.9
0.9500 (1.05 years)	36.8	26.7	46.2
0.9000 (1.11 years)	44.1	33.2	54.1
0.8000 (1.25 years)	55.1	43.5	66.3
0.5000 (2 years)	86.3	72.1	103.0
0.2000 (5 years)	138.6	115.2	175.2
0.1000 (10 years)	179.3	145.6	238.9
0.0400 (25 years)	238.0	186.5	339.0
0.0200 (50 years)	287.1	218.9	428.8
0.0100 (100 years)	340.8	253.1	532.5
0.0050 (200 years)	399.7	289.5	651.9
0.0020 (500 years)	486.5	341.1	837.2
0.6667 (1.50 years)	68.4		
0.4292 (2.33 years)	95.1		

04138800

Houghton Creek at Rose City, MI

Number of peaks in record: 25

Number of peaks in analysis: 25

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	71.5	45.2	96.7
0.9900 (1.01 years)	80.2	52.3	106.6
0.9500 (1.05 years)	111.3	79.1	141.0
0.9000 (1.11 years)	133.4	99.1	165.2
0.8000 (1.25 years)	167.1	130.3	202.6
0.5000 (2 years)	262.1	217.2	315.6
0.2000 (5 years)	421.8	348.1	539.9
0.1000 (10 years)	546.7	440.1	739.8
0.0400 (25 years)	726.6	563.7	1056.0
0.0200 (50 years)	877.0	661.7	1340.0
0.0100 (100 years)	1042.0	765.0	1670.0
0.0050 (200 years)	1223.0	874.6	2051.0
0.0020 (500 years)	1490.0	1030.0	2645.0
0.6667 (1.50 years)	207.6		
0.4292 (2.33 years)	288.9		

Lower Peninsula

04138900

Wilkins Creek near Rose City, MI

Number of peaks in record: 26

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	38.9	25.4	51.7
0.9900 (1.01 years)	43.2	29.0	56.5
0.9500 (1.05 years)	58.4	42.4	73.2
0.9000 (1.11 years)	69.2	52.2	84.9
0.8000 (1.25 years)	85.7	67.6	103.1
0.5000 (2 years)	132.2	110.4	157.9
0.2000 (5 years)	211.3	175.8	267.2
0.1000 (10 years)	273.8	222.3	365.5
0.0400 (25 years)	364.9	285.5	522.3
0.0200 (50 years)	441.9	336.1	665.1
0.0100 (100 years)	527.2	390.1	832.3
0.0050 (200 years)	621.7	447.9	1027.0
0.0020 (500 years)	762.5	530.9	1335.0
0.6667 (1.50 years)	105.5		
0.4292 (2.33 years)	145.4		

04139000

Houghton Creek near Lupton, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	188.9	159.4	214.5
0.9000 (1.11 years)	212.7	183.3	238.6
0.8000 (1.25 years)	246.6	217.5	273.3
0.5000 (2 years)	331.4	300.6	365.1
0.2000 (5 years)	453.1	409.0	513.3
0.1000 (10 years)	537.3	478.2	625.0
0.0400 (25 years)	647.7	564.8	779.8
0.0200 (50 years)	733.0	629.4	904.3
0.0100 (100 years)	820.9	694.5	1037.0
0.0050 (200 years)	912.0	760.6	1177.0
0.0020 (500 years)	1038.0	850.3	1378.0
0.6667 (1.50 years)	284.4		
0.4292 (2.33 years)	353.3		

Lower Peninsula

04139500

Rifle River at "The Ranch" near Lupton, MI

Number of peaks in record: 28

Number of peaks in analysis: 28

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	182.2	133.9	223.9
0.9900 (1.01 years)	199.5	150.1	241.8
0.9500 (1.05 years)	256.1	204.9	299.8
0.9000 (1.11 years)	293.0	241.6	337.5
0.8000 (1.25 years)	345.3	294.1	391.8
0.5000 (2 years)	474.7	420.2	536.0
0.2000 (5 years)	655.9	578.2	769.7
0.1000 (10 years)	778.3	675.3	944.8
0.0400 (25 years)	935.6	793.6	1185.0
0.0200 (50 years)	1055.0	879.7	1375.0
0.0100 (100 years)	1175.0	964.7	1575.0
0.0050 (200 years)	1298.0	1050.0	1786.0
0.0020 (500 years)	1466.0	1162.0	2082.0
0.6667 (1.50 years)	403.2		
0.4292 (2.33 years)	508.0		

04140000

Prior Creek near Selkirk, MI

Number of peaks in record: 28

Number of peaks in analysis: 28

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	117.2	96.4	134.6
0.9000 (1.11 years)	130.2	109.7	147.7
0.8000 (1.25 years)	148.9	128.8	166.9
0.5000 (2 years)	196.0	175.5	218.5
0.2000 (5 years)	264.7	236.3	305.4
0.1000 (10 years)	312.9	275.1	373.2
0.0400 (25 years)	377.0	323.8	469.5
0.0200 (50 years)	427.2	360.4	548.8
0.0100 (100 years)	479.5	397.5	634.5
0.0050 (200 years)	534.3	435.4	727.4
0.0020 (500 years)	611.1	487.2	862.5
0.6667 (1.50 years)	169.8		
0.4292 (2.33 years)	208.2		

Lower Peninsula

04140200

Klacking Creek at Campbell Road near Selkirk, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	35.1	26.5	43.1
0.9900 (1.01 years)	38.1	29.2	46.2
0.9500 (1.05 years)	48.4	38.9	57.1
0.9000 (1.11 years)	55.6	45.8	64.6
0.8000 (1.25 years)	66.4	56.2	76.1
0.5000 (2 years)	96.3	84.6	109.4
0.2000 (5 years)	146.1	127.7	172.1
0.1000 (10 years)	184.9	158.5	226.2
0.0400 (25 years)	241.1	200.6	310.0
0.0200 (50 years)	288.4	234.5	384.6
0.0100 (100 years)	340.7	270.9	470.6
0.0050 (200 years)	398.6	310.0	569.5
0.0020 (500 years)	484.9	366.6	723.3
0.6667 (1.50 years)	79.3		
0.4292 (2.33 years)	104.6		

04140500

Rifle River at State Road at Selkirk, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	486.3	416.8	548.7
0.9000 (1.11 years)	556.5	486.3	620.0
0.8000 (1.25 years)	656.6	586.0	722.8
0.5000 (2 years)	907.7	829.9	992.4
0.2000 (5 years)	1267.0	1151.0	1419.0
0.1000 (10 years)	1514.0	1357.0	1734.0
0.0400 (25 years)	1835.0	1616.0	2164.0
0.0200 (50 years)	2082.0	1808.0	2506.0
0.0100 (100 years)	2335.0	2001.0	2864.0
0.0050 (200 years)	2595.0	2197.0	3242.0
0.0020 (500 years)	2954.0	2461.0	3774.0
0.6667 (1.50 years)	768.4		
0.4292 (2.33 years)	972.8		

Lower Peninsula

04141000

South Branch Shepards Creek near Selkirk, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	20.0	14.3	25.6
0.9000 (1.11 years)	26.1	19.7	32.4
0.8000 (1.25 years)	35.6	28.3	43.0
0.5000 (2 years)	62.4	52.2	74.8
0.2000 (5 years)	104.6	86.6	132.2
0.1000 (10 years)	134.8	109.2	177.6
0.0400 (25 years)	174.5	137.4	241.3
0.0200 (50 years)	204.8	158.2	292.5
0.0100 (100 years)	235.4	178.6	346.2
0.0050 (200 years)	266.5	198.9	402.5
0.0020 (500 years)	308.3	225.5	480.6
0.6667 (1.50 years)	47.1		
0.4292 (2.33 years)	70.0		

04141100

Shepards Creek near Selkirk, MI

Number of peaks in record: 27

Number of peaks in analysis: 27

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	23.6	12.6	35.9
0.9900 (1.01 years)	28.3	15.8	41.8
0.9500 (1.05 years)	46.4	29.5	63.9
0.9000 (1.11 years)	60.7	40.9	80.9
0.8000 (1.25 years)	84.2	60.7	108.8
0.5000 (2 years)	158.7	123.9	203.2
0.2000 (5 years)	303.0	234.5	419.9
0.1000 (10 years)	426.9	320.0	634.3
0.0400 (25 years)	617.6	442.1	1001.0
0.0200 (50 years)	785.6	543.4	1353.0
0.0100 (100 years)	976.8	653.8	1780.0
0.0050 (200 years)	1194.0	774.2	2294.0
0.0020 (500 years)	1524.0	950.2	3131.0
0.6667 (1.50 years)	114.6		
0.4292 (2.33 years)	181.7		

Lower Peninsula

04142000

Rifle River near Sterling, MI

Number of peaks in record: 68

Number of peaks in analysis: 68

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1209.0	1068.0	1336.0
0.9000 (1.11 years)	1382.0	1241.0	1510.0
0.8000 (1.25 years)	1622.0	1483.0	1753.0
0.5000 (2 years)	2195.0	2043.0	2359.0
0.2000 (5 years)	2955.0	2733.0	3234.0
0.1000 (10 years)	3443.0	3153.0	3831.0
0.0400 (25 years)	4047.0	3655.0	4596.0
0.0200 (50 years)	4488.0	4013.0	5169.0
0.0100 (100 years)	4922.0	4361.0	5745.0
0.0050 (200 years)	5354.0	4702.0	6326.0
0.0020 (500 years)	5924.0	5146.0	7107.0
0.6667 (1.50 years)	1882.0		
0.4292 (2.33 years)	2339.4		

04143500

North Branch Kawkawlin River near Kawkawlin, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	253.8	182.7	320.9
0.9000 (1.11 years)	329.7	250.8	404.3
0.8000 (1.25 years)	444.1	356.4	530.5
0.5000 (2 years)	742.4	626.9	883.2
0.2000 (5 years)	1156.0	966.1	1447.0
0.1000 (10 years)	1419.0	1165.0	1842.0
0.0400 (25 years)	1732.0	1391.0	2340.0
0.0200 (50 years)	1949.0	1543.0	2702.0
0.0100 (100 years)	2154.0	1683.0	3052.0
0.0050 (200 years)	2348.0	1813.0	3392.0
0.0020 (500 years)	2588.0	1972.0	3825.0
0.6667 (1.50 years)	575.6		
0.4292 (2.33 years)	822.7		

Lower Peninsula

04143900

Shiawassee River at Linden, MI

Number of peaks in record: 30

Number of peaks in analysis: 29

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	104.2	83.6	121.1
0.9900 (1.01 years)	110.4	89.8	127.2
0.9500 (1.05 years)	130.3	110.3	146.9
0.9000 (1.11 years)	143.1	123.6	159.6
0.8000 (1.25 years)	161.1	142.3	177.7
0.5000 (2 years)	205.1	186.5	225.1
0.2000 (5 years)	266.5	241.8	301.3
0.1000 (10 years)	308.2	275.9	358.3
0.0400 (25 years)	362.2	317.8	436.7
0.0200 (50 years)	403.5	348.7	499.4
0.0100 (100 years)	445.7	379.5	565.6
0.0050 (200 years)	489.2	410.5	635.8
0.0020 (500 years)	549.0	452.3	735.5
0.6667 (1.50 years)	180.9		
0.4292 (2.33 years)	216.2		

04144000

Shiawassee River at Byron, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	703.3	563.3	828.4
0.9000 (1.11 years)	824.5	680.5	954.5
0.8000 (1.25 years)	1000.0	852.2	1139.0
0.5000 (2 years)	1449.0	1281.0	1639.0
0.2000 (5 years)	2103.0	1847.0	2468.0
0.1000 (10 years)	2558.0	2209.0	3100.0
0.0400 (25 years)	3153.0	2660.0	3977.0
0.0200 (50 years)	3610.0	2994.0	4683.0
0.0100 (100 years)	4078.0	3328.0	5430.0
0.0050 (200 years)	4560.0	3664.0	6223.0
0.0020 (500 years)	5223.0	4116.0	7347.0
0.6667 (1.50 years)	1198.5		
0.4292 (2.33 years)	1567.6		

Lower Peninsula

04144500 Shiawassee River at Owosso, MI

Number of peaks in record: 74

Number of peaks in analysis: 74

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1058.0	898.4	1208.0
0.9000 (1.11 years)	1298.0	1129.0	1457.0
0.8000 (1.25 years)	1644.0	1465.0	1817.0
0.5000 (2 years)	2505.0	2285.0	2750.0
0.2000 (5 years)	3672.0	3319.0	4125.0
0.1000 (10 years)	4416.0	3945.0	5056.0
0.0400 (25 years)	5318.0	4680.0	6223.0
0.0200 (50 years)	5960.0	5192.0	7077.0
0.0100 (100 years)	6579.0	5678.0	7914.0
0.0050 (200 years)	7177.0	6142.0	8736.0
0.0020 (500 years)	7944.0	6729.0	9807.0
0.6667 (1.50 years)	2028.8		
0.4292 (2.33 years)	2729.9		

04145000 Shiawassee River near Fergus, MI

Number of peaks in record: 54

Number of peaks in analysis: 54

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	792.7	588.5	990.3
0.9900 (1.01 years)	934.4	713.7	1144.0
0.9500 (1.05 years)	1429.0	1170.0	1669.0
0.9000 (1.11 years)	1767.0	1493.0	2022.0
0.8000 (1.25 years)	2255.0	1965.0	2535.0
0.5000 (2 years)	3460.0	3103.0	3865.0
0.2000 (5 years)	5056.0	4493.0	5815.0
0.1000 (10 years)	6051.0	5307.0	7116.0
0.0400 (25 years)	7228.0	6239.0	8720.0
0.0200 (50 years)	8050.0	6873.0	9872.0
0.0100 (100 years)	8826.0	7462.0	10980.0
0.0050 (200 years)	9565.0	8015.0	12060.0
0.0020 (500 years)	10490.0	8701.0	13440.0
0.6667 (1.50 years)	2795.7		
0.4292 (2.33 years)	3772.7		

Lower Peninsula

04146000

Farmers Creek near Lapeer, MI

Number of peaks in record: 72

Number of peaks in analysis: 71

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	53.9	40.0	68.1
0.9900 (1.01 years)	62.9	47.7	78.2
0.9500 (1.05 years)	96.3	77.3	114.9
0.9000 (1.11 years)	121.1	100.0	141.9
0.8000 (1.25 years)	160.3	136.4	184.4
0.5000 (2 years)	276.4	242.9	314.4
0.2000 (5 years)	481.6	418.8	565.9
0.1000 (10 years)	646.7	551.5	783.8
0.0400 (25 years)	888.2	737.4	1120.0
0.0200 (50 years)	1092.0	889.2	1416.0
0.0100 (100 years)	1317.0	1052.0	1753.0
0.0050 (200 years)	1565.0	1228.0	2135.0
0.0020 (500 years)	1931.0	1481.0	2717.0
0.6667 (1.50 years)	208.9		
0.4292 (2.33 years)	310.4		

04146063

South Branch Flint River near Columbiaville, MI

Number of peaks in record: 25

Number of peaks in analysis: 25

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	310.3	203.2	409.5
0.9900 (1.01 years)	346.7	234.2	449.6
0.9500 (1.05 years)	472.6	346.5	585.9
0.9000 (1.11 years)	559.8	427.6	679.5
0.8000 (1.25 years)	689.6	551.0	820.7
0.5000 (2 years)	1040.0	878.1	1230.0
0.2000 (5 years)	1593.0	1339.0	1992.0
0.1000 (10 years)	2003.0	1648.0	2631.0
0.0400 (25 years)	2570.0	2047.0	3591.0
0.0200 (50 years)	3027.0	2353.0	4418.0
0.0100 (100 years)	3513.0	2668.0	5343.0
0.0050 (200 years)	4032.0	2994.0	6375.0
0.0020 (500 years)	4773.0	3445.0	7923.0
0.6667 (1.50 years)	841.5		
0.4292 (2.33 years)	1136.1		

Lower Peninsula

04147500

Flint River near Otisville, MI

Number of peaks in record: 51

Number of peaks in analysis: 51

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	876.6	693.0	1052.0
0.9000 (1.11 years)	1085.0	885.4	1275.0
0.8000 (1.25 years)	1401.0	1183.0	1616.0
0.5000 (2 years)	2274.0	1990.0	2599.0
0.2000 (5 years)	3665.0	3177.0	4343.0
0.1000 (10 years)	4690.0	3991.0	5740.0
0.0400 (25 years)	6089.0	5053.0	7753.0
0.0200 (50 years)	7198.0	5866.0	9421.0
0.0100 (100 years)	8362.0	6698.0	11230.0
0.0050 (200 years)	9584.0	7554.0	13180.0
0.0020 (500 years)	11300.0	8728.0	16000.0
0.6667 (1.50 years)	1776.6		
0.4292 (2.33 years)	2517.9		

04148000

Flint River at Genesee, MI

Number of peaks in record: 22

Number of peaks in analysis: 22

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1173.0	809.5	1504.0
0.9000 (1.11 years)	1441.0	1051.0	1797.0
0.8000 (1.25 years)	1839.0	1421.0	2239.0
0.5000 (2 years)	2899.0	2393.0	3517.0
0.2000 (5 years)	4495.0	3691.0	5824.0
0.1000 (10 years)	5617.0	4512.0	7672.0
0.0400 (25 years)	7089.0	5522.0	10310.0
0.0200 (50 years)	8218.0	6260.0	12470.0
0.0100 (100 years)	9370.0	6989.0	14790.0
0.0050 (200 years)	10550.0	7715.0	17260.0
0.0020 (500 years)	12160.0	8677.0	20790.0
0.6667 (1.50 years)	2301.5		
0.4292 (2.33 years)	3187.2		

Lower Peninsula

04148140

Kearsley Creek near Davison, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	174.2	127.7	217.3
0.9900 (1.01 years)	196.3	147.6	241.0
0.9500 (1.05 years)	271.4	217.6	320.1
0.9000 (1.11 years)	322.1	266.2	373.0
0.8000 (1.25 years)	395.6	337.7	450.4
0.5000 (2 years)	583.4	516.0	659.8
0.2000 (5 years)	855.2	750.9	1002.0
0.1000 (10 years)	1042.0	900.1	1259.0
0.0400 (25 years)	1284.0	1084.0	1611.0
0.0200 (50 years)	1468.0	1220.0	1891.0
0.0100 (100 years)	1654.0	1354.0	2183.0
0.0050 (200 years)	1845.0	1488.0	2490.0
0.0020 (500 years)	2104.0	1667.0	2919.0
0.6667 (1.50 years)	478.6		
0.4292 (2.33 years)	633.1		

04148200

Swartz Creek near Holly, MI

Number of peaks in record: 29

Number of peaks in analysis: 29

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	17.5	12.4	22.1
0.9900 (1.01 years)	19.3	14.0	24.1
0.9500 (1.05 years)	25.4	19.6	30.5
0.9000 (1.11 years)	29.6	23.6	34.9
0.8000 (1.25 years)	35.7	29.6	41.4
0.5000 (2 years)	51.9	44.9	59.8
0.2000 (5 years)	76.8	66.2	92.6
0.1000 (10 years)	95.0	80.3	119.3
0.0400 (25 years)	119.9	98.5	158.6
0.0200 (50 years)	139.8	112.4	191.9
0.0100 (100 years)	160.8	126.7	228.7
0.0050 (200 years)	183.2	141.5	269.3
0.0020 (500 years)	215.0	161.9	329.5
0.6667 (1.50 years)	42.7		
0.4292 (2.33 years)	56.2		

Lower Peninsula

04148300

Swartz Creek at Flint, MI

Number of peaks in record: 28

Number of peaks in analysis: 28

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	630.9	476.0	768.7
0.9000 (1.11 years)	761.9	600.2	907.2
0.8000 (1.25 years)	951.2	782.9	1110.0
0.5000 (2 years)	1425.0	1229.0	1656.0
0.2000 (5 years)	2082.0	1783.0	2534.0
0.1000 (10 years)	2512.0	2115.0	3173.0
0.0400 (25 years)	3046.0	2506.0	4019.0
0.0200 (50 years)	3437.0	2782.0	4668.0
0.0100 (100 years)	3820.0	3046.0	5327.0
0.0050 (200 years)	4199.0	3301.0	5999.0
0.0020 (500 years)	4696.0	3629.0	6906.0
0.6667 (1.50 years)	1162.5		
0.4292 (2.33 years)	1549.3		

04148440

Thread Creek near Flint, MI

Number of peaks in record: 28

Number of peaks in analysis: 28

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	116.7	77.5	153.6
0.9900 (1.01 years)	131.9	90.4	170.3
0.9500 (1.05 years)	184.5	137.4	227.3
0.9000 (1.11 years)	220.9	171.2	266.3
0.8000 (1.25 years)	275.0	222.6	324.8
0.5000 (2 years)	419.1	356.9	492.1
0.2000 (5 years)	641.3	542.9	792.1
0.1000 (10 years)	802.2	665.2	1036.0
0.0400 (25 years)	1020.0	820.9	1390.0
0.0200 (50 years)	1191.0	938.4	1687.0
0.0100 (100 years)	1371.0	1058.0	2012.0
0.0050 (200 years)	1559.0	1179.0	2366.0
0.0020 (500 years)	1823.0	1345.0	2884.0
0.6667 (1.50 years)	337.7		
0.4292 (2.33 years)	458.4		

Lower Peninsula

04148500

Flint River near Flint, MI

Number of peaks in record: 71

Number of peaks in analysis: 71

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1362.0	1084.0	1627.0
0.9900 (1.01 years)	1548.0	1256.0	1824.0
0.9500 (1.05 years)	2185.0	1858.0	2491.0
0.9000 (1.11 years)	2619.0	2276.0	2940.0
0.8000 (1.25 years)	3251.0	2891.0	3599.0
0.5000 (2 years)	4876.0	4441.0	5357.0
0.2000 (5 years)	7236.0	6535.0	8140.0
0.1000 (10 years)	8856.0	7893.0	10180.0
0.0400 (25 years)	10950.0	9587.0	12910.0
0.0200 (50 years)	12540.0	10840.0	15050.0
0.0100 (100 years)	14140.0	12080.0	17270.0
0.0050 (200 years)	15780.0	13330.0	19570.0
0.0020 (500 years)	17990.0	14990.0	22740.0
0.6667 (1.50 years)	3968.4		
0.4292 (2.33 years)	5308.4		

04149000

Flint River near Fosters, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	2692.0	2226.0	3121.0
0.9000 (1.11 years)	3232.0	2746.0	3683.0
0.8000 (1.25 years)	4016.0	3507.0	4504.0
0.5000 (2 years)	6002.0	5394.0	6683.0
0.2000 (5 years)	8816.0	7858.0	10100.0
0.1000 (10 years)	10700.0	9406.0	12570.0
0.0400 (25 years)	13100.0	11290.0	15850.0
0.0200 (50 years)	14880.0	12660.0	18380.0
0.0100 (100 years)	16660.0	14000.0	20960.0
0.0050 (200 years)	18450.0	15320.0	23610.0
0.0020 (500 years)	20830.0	17050.0	27220.0
0.6667 (1.50 years)	4897.2		
0.4292 (2.33 years)	6525.0		

Lower Peninsula

04150000

South Branch Cass River near Cass City, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1111.0	822.1	1379.0
0.9000 (1.11 years)	1406.0	1093.0	1697.0
0.8000 (1.25 years)	1841.0	1502.0	2170.0
0.5000 (2 years)	2950.0	2523.0	3461.0
0.2000 (5 years)	4465.0	3782.0	5493.0
0.1000 (10 years)	5426.0	4520.0	6912.0
0.0400 (25 years)	6577.0	5363.0	8709.0
0.0200 (50 years)	7384.0	5935.0	10030.0
0.0100 (100 years)	8151.0	6467.0	11310.0
0.0050 (200 years)	8883.0	6965.0	12570.0
0.0020 (500 years)	9803.0	7581.0	14200.0
0.6667 (1.50 years)	2333.2		
0.4292 (2.33 years)	3243.1		

04150500

Cass River at Cass City, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1606.0	1295.0	1898.0
0.9000 (1.11 years)	1987.0	1654.0	2301.0
0.8000 (1.25 years)	2552.0	2193.0	2901.0
0.5000 (2 years)	4023.0	3570.0	4540.0
0.2000 (5 years)	6156.0	5410.0	7174.0
0.1000 (10 years)	7599.0	6577.0	9095.0
0.0400 (25 years)	9431.0	7999.0	11650.0
0.0200 (50 years)	10790.0	9026.0	13620.0
0.0100 (100 years)	12150.0	10030.0	15630.0
0.0050 (200 years)	13500.0	11010.0	17680.0
0.0020 (500 years)	15290.0	12290.0	20460.0
0.6667 (1.50 years)	3198.8		
0.4292 (2.33 years)	4418.9		

Lower Peninsula

04150800

Cass River at Wahjamega, MI

Number of peaks in record: 26

Number of peaks in analysis: 26

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	2252.0	1568.0	2858.0
0.9900 (1.01 years)	2498.0	1789.0	3118.0
0.9500 (1.05 years)	3317.0	2558.0	3975.0
0.9000 (1.11 years)	3861.0	3087.0	4541.0
0.8000 (1.25 years)	4643.0	3857.0	5366.0
0.5000 (2 years)	6616.0	5751.0	7609.0
0.2000 (5 years)	9446.0	8174.0	11370.0
0.1000 (10 years)	11390.0	9681.0	14250.0
0.0400 (25 years)	13910.0	11530.0	18260.0
0.0200 (50 years)	15830.0	12880.0	21490.0
0.0100 (100 years)	17790.0	14220.0	24910.0
0.0050 (200 years)	19790.0	15560.0	28550.0
0.0020 (500 years)	22540.0	17340.0	33700.0
0.6667 (1.50 years)	5519.0		
0.4292 (2.33 years)	7132.0		

04151000

Cass River at Vassar, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	2377.0	1792.0	2919.0
0.9000 (1.11 years)	2991.0	2360.0	3579.0
0.8000 (1.25 years)	3899.0	3216.0	4560.0
0.5000 (2 years)	6217.0	5359.0	7233.0
0.2000 (5 years)	9419.0	8042.0	11450.0
0.1000 (10 years)	11480.0	9637.0	14420.0
0.0400 (25 years)	13970.0	11480.0	18220.0
0.0200 (50 years)	15740.0	12750.0	21040.0
0.0100 (100 years)	17430.0	13940.0	23810.0
0.0050 (200 years)	19070.0	15070.0	26550.0
0.0020 (500 years)	21140.0	16480.0	30120.0
0.6667 (1.50 years)	4926.1		
0.4292 (2.33 years)	6831.9		

Lower Peninsula

04151500

Cass River at Frankenmuth, MI

Number of peaks in record: 67

Number of peaks in analysis: 65

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	2747.0	2241.0	3230.0
0.9000 (1.11 years)	3493.0	2941.0	4021.0
0.8000 (1.25 years)	4605.0	3999.0	5202.0
0.5000 (2 years)	7490.0	6691.0	8398.0
0.2000 (5 years)	11540.0	10210.0	13320.0
0.1000 (10 years)	14170.0	12360.0	16740.0
0.0400 (25 years)	17380.0	14900.0	21060.0
0.0200 (50 years)	19670.0	16670.0	24240.0
0.0100 (100 years)	21870.0	18340.0	27360.0
0.0050 (200 years)	24000.0	19930.0	30430.0
0.0020 (500 years)	26710.0	21930.0	34410.0
0.6667 (1.50 years)	5877.5		
0.4292 (2.33 years)	8264.1		

04152500

Tobacco River at Glidden Road at Beaverton, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1074.0	784.7	1339.0
0.9900 (1.01 years)	1201.0	899.4	1473.0
0.9500 (1.05 years)	1627.0	1300.0	1919.0
0.9000 (1.11 years)	1911.0	1575.0	2214.0
0.8000 (1.25 years)	2321.0	1976.0	2644.0
0.5000 (2 years)	3358.0	2967.0	3802.0
0.2000 (5 years)	4846.0	4252.0	5693.0
0.1000 (10 years)	5862.0	5062.0	7112.0
0.0400 (25 years)	7177.0	6058.0	9057.0
0.0200 (50 years)	8175.0	6787.0	10600.0
0.0100 (100 years)	9188.0	7510.0	12220.0
0.0050 (200 years)	10220.0	8231.0	13920.0
0.0020 (500 years)	11630.0	9192.0	16310.0
0.6667 (1.50 years)	2781.2		
0.4292 (2.33 years)	3630.5		

Lower Peninsula

04153500

Salt River near North Bradley, MI

Number of peaks in record: 48

Number of peaks in analysis: 48

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	213.9	128.6	310.8
0.9900 (1.01 years)	274.0	172.5	386.0
0.9500 (1.05 years)	524.9	370.5	685.6
0.9000 (1.11 years)	730.9	543.6	923.7
0.8000 (1.25 years)	1076.0	843.3	1320.0
0.5000 (2 years)	2159.0	1783.0	2620.0
0.2000 (5 years)	4100.0	3337.0	5245.0
0.1000 (10 years)	5613.0	4461.0	7490.0
0.0400 (25 years)	7723.0	5952.0	10830.0
0.0200 (50 years)	9411.0	7100.0	13640.0
0.0100 (100 years)	11180.0	8269.0	16700.0
0.0050 (200 years)	13030.0	9464.0	20000.0
0.0020 (500 years)	15590.0	11080.0	24720.0
0.6667 (1.50 years)	1521.6		
0.4292 (2.33 years)	2489.9		

04154000

Chippewa River near Mount Pleasant, MI

Number of peaks in record: 73

Number of peaks in analysis: 72

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	517.2	416.3	613.4
0.9900 (1.01 years)	576.7	471.3	676.4
0.9500 (1.05 years)	781.4	664.9	890.7
0.9000 (1.11 years)	922.5	800.8	1037.0
0.8000 (1.25 years)	1132.0	1004.0	1256.0
0.5000 (2 years)	1695.0	1540.0	1865.0
0.2000 (5 years)	2576.0	2323.0	2904.0
0.1000 (10 years)	3227.0	2867.0	3724.0
0.0400 (25 years)	4123.0	3587.0	4903.0
0.0200 (50 years)	4842.0	4149.0	5885.0
0.0100 (100 years)	5606.0	4733.0	6953.0
0.0050 (200 years)	6420.0	5344.0	8118.0
0.0020 (500 years)	7580.0	6198.0	9821.0
0.6667 (1.50 years)	1376.4		
0.4292 (2.33 years)	1848.1		

Lower Peninsula

04154500

Chippewa River near Midland, MI

Number of peaks in record: 32

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1026.0	713.0	1313.0
0.9900 (1.01 years)	1168.0	837.6	1466.0
0.9500 (1.05 years)	1647.0	1280.0	1972.0
0.9000 (1.11 years)	1967.0	1588.0	2307.0
0.8000 (1.25 years)	2426.0	2035.0	2793.0
0.5000 (2 years)	3567.0	3118.0	4085.0
0.2000 (5 years)	5138.0	4461.0	6134.0
0.1000 (10 years)	6168.0	5269.0	7613.0
0.0400 (25 years)	7449.0	6227.0	9568.0
0.0200 (50 years)	8389.0	6904.0	11070.0
0.0100 (100 years)	9314.0	7555.0	12590.0
0.0050 (200 years)	10230.0	8188.0	14140.0
0.0020 (500 years)	11440.0	9005.0	16250.0
0.6667 (1.50 years)	2935.8		
0.4292 (2.33 years)	3863.2		

04155000

Pine River at Alma, MI

Number of peaks in record: 74

Number of peaks in analysis: 70

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	369.6	287.3	449.8
0.9900 (1.01 years)	423.4	335.7	508.0
0.9500 (1.05 years)	612.8	511.1	709.4
0.9000 (1.11 years)	745.5	637.0	848.9
0.8000 (1.25 years)	944.2	827.3	1059.0
0.5000 (2 years)	1479.0	1331.0	1644.0
0.2000 (5 years)	2308.0	2059.0	2635.0
0.1000 (10 years)	2908.0	2554.0	3402.0
0.0400 (25 years)	3716.0	3197.0	4482.0
0.0200 (50 years)	4351.0	3687.0	5361.0
0.0100 (100 years)	5012.0	4188.0	6298.0
0.0050 (200 years)	5702.0	4701.0	7300.0
0.0020 (500 years)	6664.0	5403.0	8730.0
0.6667 (1.50 years)	1176.4		
0.4292 (2.33 years)	1626.1		

Lower Peninsula

04155500

Pine River near Midland, MI

Number of peaks in record: 58

Number of peaks in analysis: 56

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	681.5	519.7	835.8
0.9900 (1.01 years)	786.6	614.4	948.5
0.9500 (1.05 years)	1147.0	951.7	1328.0
0.9000 (1.11 years)	1391.0	1187.0	1581.0
0.8000 (1.25 years)	1743.0	1529.0	1950.0
0.5000 (2 years)	2623.0	2364.0	2914.0
0.2000 (5 years)	3831.0	3423.0	4375.0
0.1000 (10 years)	4616.0	4070.0	5393.0
0.0400 (25 years)	5583.0	4838.0	6700.0
0.0200 (50 years)	6284.0	5380.0	7678.0
0.0100 (100 years)	6968.0	5900.0	8654.0
0.0050 (200 years)	7640.0	6403.0	9630.0
0.0020 (500 years)	8514.0	7048.0	10930.0
0.6667 (1.50 years)	2135.9		
0.4292 (2.33 years)	2852.7		

04156000

Tittabawassee River at Midland, MI

Number of peaks in record: 97

Number of peaks in analysis: 95

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	5183.0	4420.0	5915.0
0.9000 (1.11 years)	6446.0	5623.0	7239.0
0.8000 (1.25 years)	8336.0	7438.0	9220.0
0.5000 (2 years)	13340.0	12170.0	14630.0
0.2000 (5 years)	20760.0	18760.0	23290.0
0.1000 (10 years)	25880.0	23090.0	29600.0
0.0400 (25 years)	32470.0	28490.0	38010.0
0.0200 (50 years)	37430.0	32460.0	44510.0
0.0100 (100 years)	42420.0	36390.0	51170.0
0.0050 (200 years)	47450.0	40300.0	58000.0
0.0020 (500 years)	54180.0	45470.0	67310.0
0.6667 (1.50 years)	10522.8		
0.4292 (2.33 years)	14699.6		

Lower Peninsula

04157000

Saginaw River at Saginaw, MI

Number of peaks in record: 83

Number of peaks in analysis: 71

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	16410.0	14510.0	18120.0
0.9000 (1.11 years)	18740.0	16850.0	20470.0
0.8000 (1.25 years)	22010.0	20120.0	23780.0
0.5000 (2 years)	29880.0	27820.0	32100.0
0.2000 (5 years)	40510.0	37490.0	44300.0
0.1000 (10 years)	47450.0	43460.0	52770.0
0.0400 (25 years)	56150.0	50700.0	63760.0
0.0200 (50 years)	62570.0	55920.0	72090.0
0.0100 (100 years)	68970.0	61040.0	80540.0
0.0050 (200 years)	75380.0	66100.0	89150.0
0.0020 (500 years)	83930.0	72770.0	100800.0
0.6667 (1.50 years)	25562.7		
0.4292 (2.33 years)	31878.9		

04158500

Pigeon River near Owendale, MI

Number of peaks in record: 30

Number of peaks in analysis: 30

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	310.7	220.8	395.5
0.9000 (1.11 years)	402.5	302.8	496.6
0.8000 (1.25 years)	541.1	430.3	650.0
0.5000 (2 years)	903.8	758.5	1082.0
0.2000 (5 years)	1412.0	1173.0	1784.0
0.1000 (10 years)	1738.0	1418.0	2282.0
0.0400 (25 years)	2130.0	1698.0	2920.0
0.0200 (50 years)	2406.0	1889.0	3389.0
0.0100 (100 years)	2667.0	2065.0	3848.0
0.0050 (200 years)	2916.0	2230.0	4297.0
0.0020 (500 years)	3229.0	2433.0	4876.0
0.6667 (1.50 years)	700.7		
0.4292 (2.33 years)	1001.7		

Lower Peninsula

04159492

Black River near Jeddo, MI

Number of peaks in record: 61

Number of peaks in analysis: 61

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	2057.0	1664.0	2431.0
0.9000 (1.11 years)	2656.0	2226.0	3066.0
0.8000 (1.25 years)	3543.0	3070.0	4008.0
0.5000 (2 years)	5774.0	5148.0	6492.0
0.2000 (5 years)	8698.0	7675.0	10070.0
0.1000 (10 years)	10460.0	9117.0	12370.0
0.0400 (25 years)	12480.0	10710.0	15100.0
0.0200 (50 years)	13830.0	11760.0	16980.0
0.0100 (100 years)	15060.0	12700.0	18720.0
0.0050 (200 years)	16190.0	13550.0	20340.0
0.0020 (500 years)	17560.0	14570.0	22330.0
0.6667 (1.50 years)	4539.7		
0.4292 (2.33 years)	6359.4		

04159500

Black River near Fargo, MI

Number of peaks in record: 48

Number of peaks in analysis: 48

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1977.0	1540.0	2392.0
0.9000 (1.11 years)	2562.0	2081.0	3019.0
0.8000 (1.25 years)	3435.0	2903.0	3959.0
0.5000 (2 years)	5662.0	4958.0	6487.0
0.2000 (5 years)	8643.0	7486.0	10270.0
0.1000 (10 years)	10480.0	8944.0	12770.0
0.0400 (25 years)	12600.0	10570.0	15790.0
0.0200 (50 years)	14040.0	11650.0	17910.0
0.0100 (100 years)	15370.0	12630.0	19910.0
0.0050 (200 years)	16600.0	13520.0	21790.0
0.0020 (500 years)	18100.0	14600.0	24130.0
0.6667 (1.50 years)	4424.8		
0.4292 (2.33 years)	6252.2		

Lower Peninsula

04159900

Mill Creek near Avoca, MI

Number of peaks in record: 33

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	568.0	415.1	712.5
0.9000 (1.11 years)	700.4	534.4	857.9
0.8000 (1.25 years)	903.1	721.1	1082.0
0.5000 (2 years)	1470.0	1237.0	1747.0
0.2000 (5 years)	2396.0	2001.0	3000.0
0.1000 (10 years)	3095.0	2527.0	4058.0
0.0400 (25 years)	4068.0	3217.0	5645.0
0.0200 (50 years)	4855.0	3750.0	7008.0
0.0100 (100 years)	5692.0	4300.0	8525.0
0.0050 (200 years)	6586.0	4871.0	10210.0
0.0020 (500 years)	7860.0	5661.0	12720.0
0.6667 (1.50 years)	1145.7		
0.4292 (2.33 years)	1629.8		

04160350

Pine River at Gratiot Road near Rattle Run, MI

Number of peaks in record: 31

Number of peaks in analysis: 31

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9000 (1.11 years)	980.8	759.1	1188.0
0.8000 (1.25 years)	1221.0	984.0	1451.0
0.5000 (2 years)	1901.0	1610.0	2239.0
0.2000 (5 years)	3048.0	2567.0	3775.0
0.1000 (10 years)	3949.0	3250.0	5130.0
0.0400 (25 years)	5254.0	4179.0	7257.0
0.0200 (50 years)	6352.0	4923.0	9167.0
0.0100 (100 years)	7560.0	5714.0	11380.0
0.0050 (200 years)	8893.0	6558.0	13920.0
0.0020 (500 years)	10870.0	7769.0	17890.0
0.6667 (1.50 years)	1510.9		
0.4292 (2.33 years)	2092.2		

Lower Peninsula

04160570

North Branch Belle River at Imlay City, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	48.6	35.7	60.4
0.9900 (1.01 years)	54.9	41.4	67.0
0.9500 (1.05 years)	75.6	61.0	88.6
0.9000 (1.11 years)	89.3	74.4	102.6
0.8000 (1.25 years)	108.6	93.4	122.8
0.5000 (2 years)	155.7	138.6	175.1
0.2000 (5 years)	219.1	193.7	255.1
0.1000 (10 years)	260.1	226.6	311.3
0.0400 (25 years)	310.4	265.3	384.3
0.0200 (50 years)	347.0	292.6	439.5
0.0100 (100 years)	382.9	318.7	495.0
0.0050 (200 years)	418.2	343.9	551.1
0.0020 (500 years)	464.5	376.4	626.4
0.6667 (1.50 years)	129.8		
0.4292 (2.33 years)	167.8		

04160600

Belle River at Memphis, MI

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	615.0	480.3	741.1
0.9000 (1.11 years)	750.5	606.4	886.0
0.8000 (1.25 years)	953.7	798.5	1105.0
0.5000 (2 years)	1502.0	1308.0	1725.0
0.2000 (5 years)	2351.0	2030.0	2809.0
0.1000 (10 years)	2965.0	2513.0	3667.0
0.0400 (25 years)	3791.0	3132.0	4891.0
0.0200 (50 years)	4440.0	3600.0	5898.0
0.0100 (100 years)	5113.0	4074.0	6980.0
0.0050 (200 years)	5816.0	4557.0	8144.0
0.0020 (500 years)	6795.0	5215.0	9817.0
0.6667 (1.50 years)	1191.4		
0.4292 (2.33 years)	1652.3		

Lower Peninsula

04160800

Sashabaw Creek near Drayton Plains, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	30.4	24.2	35.9
0.9900 (1.01 years)	33.0	26.7	38.6
0.9500 (1.05 years)	41.8	35.2	47.6
0.9000 (1.11 years)	47.6	41.0	53.6
0.8000 (1.25 years)	56.0	49.3	62.2
0.5000 (2 years)	77.4	70.1	85.4
0.2000 (5 years)	108.9	98.1	123.5
0.1000 (10 years)	131.2	116.4	152.7
0.0400 (25 years)	160.8	139.8	193.7
0.0200 (50 years)	184.0	157.4	227.1
0.0100 (100 years)	208.1	175.4	262.8
0.0050 (200 years)	233.4	193.8	301.2
0.0020 (500 years)	268.7	219.0	356.5
0.6667 (1.50 years)	65.5		
0.4292 (2.33 years)	83.0		

04160900

Clinton River near Drayton Plains, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	73.8	62.9	83.1
0.9900 (1.01 years)	78.7	67.8	87.8
0.9500 (1.05 years)	93.7	83.3	102.5
0.9000 (1.11 years)	103.0	93.0	111.6
0.8000 (1.25 years)	115.6	106.1	124.2
0.5000 (2 years)	144.7	135.3	154.7
0.2000 (5 years)	181.7	169.3	198.0
0.1000 (10 years)	205.1	189.2	227.3
0.0400 (25 years)	233.6	212.7	264.5
0.0200 (50 years)	254.3	229.2	292.3
0.0100 (100 years)	274.6	245.2	320.1
0.0050 (200 years)	294.6	260.8	348.2
0.0020 (500 years)	321.1	281.0	385.9
0.6667 (1.50 years)	129.0		
0.4292 (2.33 years)	151.8		

Lower Peninsula

04161000

Clinton River at Auburn Hills, MI

Number of peaks in record: 42

Number of peaks in analysis: 42

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	157.9	107.5	208.3
0.9900 (1.01 years)	187.0	131.7	241.2
0.9500 (1.05 years)	292.2	224.1	356.8
0.9000 (1.11 years)	367.4	293.1	438.0
0.8000 (1.25 years)	480.7	399.2	560.8
0.5000 (2 years)	784.4	678.6	908.2
0.2000 (5 years)	1240.0	1062.0	1496.0
0.1000 (10 years)	1555.0	1308.0	1940.0
0.0400 (25 years)	1963.0	1612.0	2548.0
0.0200 (50 years)	2269.0	1833.0	3025.0
0.0100 (100 years)	2577.0	2050.0	3520.0
0.0050 (200 years)	2888.0	2264.0	4033.0
0.0020 (500 years)	3304.0	2545.0	4738.0
0.6667 (1.50 years)	613.0		
0.4292 (2.33 years)	867.7		

04161100

Galloway Creek near Auburn Heights, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	38.8	26.2	50.8
0.9900 (1.01 years)	43.6	30.3	56.2
0.9500 (1.05 years)	60.7	45.4	74.9
0.9000 (1.11 years)	72.8	56.6	88.1
0.8000 (1.25 years)	91.3	73.8	108.2
0.5000 (2 years)	142.8	121.3	167.9
0.2000 (5 years)	228.4	192.8	282.0
0.1000 (10 years)	294.4	243.0	380.6
0.0400 (25 years)	388.7	310.5	532.4
0.0200 (50 years)	466.7	363.8	666.2
0.0100 (100 years)	551.6	419.8	818.7
0.0050 (200 years)	644.1	479.1	992.1
0.0020 (500 years)	779.3	563.1	1257.0
0.6667 (1.50 years)	113.3		
0.4292 (2.33 years)	157.3		

Lower Peninsula

04161500

Paint Creek near Lake Orion, MI

Number of peaks in record: 36

Number of peaks in analysis: 36

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	38.6	26.6	50.2
0.9900 (1.01 years)	44.3	31.5	56.5
0.9500 (1.05 years)	64.3	49.4	78.1
0.9000 (1.11 years)	78.2	62.3	93.0
0.8000 (1.25 years)	98.9	81.9	115.3
0.5000 (2 years)	153.9	133.1	178.1
0.2000 (5 years)	237.5	203.7	286.8
0.1000 (10 years)	296.8	249.8	371.9
0.0400 (25 years)	375.5	308.0	492.1
0.0200 (50 years)	436.4	351.3	589.9
0.0100 (100 years)	499.2	394.7	694.3
0.0050 (200 years)	564.0	438.6	805.6
0.0020 (500 years)	653.3	497.6	964.1
0.6667 (1.50 years)	122.9		
0.4292 (2.33 years)	168.9		

04161540

Paint Creek at Rochester, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	99.4	70.1	128.4
0.9900 (1.01 years)	115.2	83.5	146.0
0.9500 (1.05 years)	171.5	133.6	207.5
0.9000 (1.11 years)	211.6	170.6	250.7
0.8000 (1.25 years)	272.5	227.7	316.5
0.5000 (2 years)	439.8	382.1	506.3
0.2000 (5 years)	704.8	606.7	843.9
0.1000 (10 years)	899.4	759.6	1115.0
0.0400 (25 years)	1164.0	957.7	1505.0
0.0200 (50 years)	1373.0	1109.0	1829.0
0.0100 (100 years)	1593.0	1263.0	2180.0
0.0050 (200 years)	1823.0	1421.0	2559.0
0.0020 (500 years)	2145.0	1638.0	3107.0
0.6667 (1.50 years)	344.6		
0.4292 (2.33 years)	486.4		

Lower Peninsula

04161580

Stony Creek near Romeo, MI

Number of peaks in record: 40

Number of peaks in analysis: 40

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	39.2	29.6	47.9
0.9900 (1.01 years)	43.4	33.4	52.4
0.9500 (1.05 years)	57.5	46.8	67.1
0.9000 (1.11 years)	66.9	56.0	76.9
0.8000 (1.25 years)	80.7	69.5	91.3
0.5000 (2 years)	116.4	103.5	130.7
0.2000 (5 years)	169.4	149.7	196.7
0.1000 (10 years)	206.9	179.9	247.8
0.0400 (25 years)	256.9	218.3	319.9
0.0200 (50 years)	295.9	247.1	378.7
0.0100 (100 years)	336.4	276.4	441.8
0.0050 (200 years)	378.7	306.2	509.6
0.0020 (500 years)	437.6	346.9	607.0
0.6667 (1.50 years)	96.4		
0.4292 (2.33 years)	125.8		

04161760

West Branch Stoney Creek near Washington, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	11.3	6.4	17.0
0.9900 (1.01 years)	14.5	8.7	21.0
0.9500 (1.05 years)	27.7	18.9	36.9
0.9000 (1.11 years)	38.4	27.8	49.3
0.8000 (1.25 years)	56.0	43.0	69.7
0.5000 (2 years)	109.6	89.2	135.2
0.2000 (5 years)	201.0	161.3	263.1
0.1000 (10 years)	269.0	210.9	368.8
0.0400 (25 years)	360.5	274.0	521.1
0.0200 (50 years)	431.3	321.0	645.4
0.0100 (100 years)	503.5	367.5	777.2
0.0050 (200 years)	577.1	413.9	916.0
0.0020 (500 years)	676.3	474.9	1110.0
0.6667 (1.50 years)	78.4		
0.4292 (2.33 years)	125.7		

Lower Peninsula

04161800

Stony Creek near Washington, MI

Number of peaks in record: 46

Number of peaks in analysis: 44

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	89.7	70.5	106.9
0.9900 (1.01 years)	99.9	80.1	117.3
0.9500 (1.05 years)	132.7	112.2	150.7
0.9000 (1.11 years)	153.7	133.2	171.9
0.8000 (1.25 years)	182.8	162.4	201.7
0.5000 (2 years)	251.2	229.0	275.7
0.2000 (5 years)	339.2	307.3	382.1
0.1000 (10 years)	394.2	352.9	453.7
0.0400 (25 years)	460.3	405.7	543.7
0.0200 (50 years)	507.4	442.3	609.8
0.0100 (100 years)	552.9	477.0	675.1
0.0050 (200 years)	597.2	510.3	739.9
0.0020 (500 years)	654.4	552.7	825.2
0.6667 (1.50 years)	213.9		
0.4292 (2.33 years)	268.2		

04162900

Big Beaver Creek near Warren, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	165.8	124.9	204.0
0.9000 (1.11 years)	205.2	161.1	246.5
0.8000 (1.25 years)	264.2	216.5	310.6
0.5000 (2 years)	421.6	361.6	492.2
0.2000 (5 years)	658.7	560.0	805.1
0.1000 (10 years)	824.9	687.9	1047.0
0.0400 (25 years)	1042.0	846.8	1384.0
0.0200 (50 years)	1208.0	963.5	1654.0
0.0100 (100 years)	1376.0	1079.0	1938.0
0.0050 (200 years)	1548.0	1194.0	2237.0
0.0020 (500 years)	1780.0	1347.0	2655.0
0.6667 (1.50 years)	332.8		
0.4292 (2.33 years)	464.6		

Lower Peninsula

04163400

Plum Brook at Utica, MI

Number of peaks in record: 38

Number of peaks in analysis: 38

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	121.9	89.8	151.7
0.9900 (1.01 years)	135.6	102.2	166.3
0.9500 (1.05 years)	182.3	145.7	215.6
0.9000 (1.11 years)	214.1	176.2	248.9
0.8000 (1.25 years)	260.9	221.4	298.3
0.5000 (2 years)	383.9	338.1	435.7
0.2000 (5 years)	571.5	500.0	672.9
0.1000 (10 years)	706.9	607.6	860.9
0.0400 (25 years)	889.8	745.7	1131.0
0.0200 (50 years)	1035.0	850.9	1355.0
0.0100 (100 years)	1186.0	958.2	1599.0
0.0050 (200 years)	1346.0	1069.0	1863.0
0.0020 (500 years)	1570.0	1220.0	2248.0
0.6667 (1.50 years)	314.7		
0.4292 (2.33 years)	417.1		

04164000

Clinton River near Fraser, MI

Number of peaks in record: 58

Number of peaks in analysis: 58

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1238.0	983.1	1474.0
0.9900 (1.01 years)	1402.0	1136.0	1645.0
0.9500 (1.05 years)	1944.0	1659.0	2203.0
0.9000 (1.11 years)	2298.0	2007.0	2564.0
0.8000 (1.25 years)	2795.0	2499.0	3076.0
0.5000 (2 years)	3985.0	3647.0	4359.0
0.2000 (5 years)	5539.0	5031.0	6201.0
0.1000 (10 years)	6513.0	5849.0	7435.0
0.0400 (25 years)	7685.0	6799.0	8976.0
0.0200 (50 years)	8518.0	7459.0	10100.0
0.0100 (100 years)	9320.0	8084.0	11210.0
0.0050 (200 years)	10100.0	8682.0	12300.0
0.0020 (500 years)	11100.0	9440.0	13720.0
0.6667 (1.50 years)	3334.2		
0.4292 (2.33 years)	4286.7		

Lower Peninsula

04164010

North Branch Clinton River at Almont, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.5000 (2 years)	232.4	203.8	265.0
0.2000 (5 years)	365.9	318.2	432.7
0.1000 (10 years)	465.8	397.5	569.7
0.0400 (25 years)	604.4	502.3	771.4
0.0200 (50 years)	716.4	583.9	942.2
0.0100 (100 years)	835.8	668.5	1131.0
0.0050 (200 years)	963.2	756.8	1338.0
0.0020 (500 years)	1145.0	880.0	1645.0
0.4292 (1.50 years)	255.5		

04164050

North Branch Clinton River at 33 Mile Road near Romeo, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	135.4	90.3	182.2
0.9900 (1.01 years)	162.6	112.2	213.7
0.9500 (1.05 years)	264.8	199.5	328.7
0.9000 (1.11 years)	340.9	267.6	412.6
0.8000 (1.25 years)	459.7	376.2	543.5
0.5000 (2 years)	797.5	681.6	934.1
0.2000 (5 years)	1347.0	1138.0	1648.0
0.1000 (10 years)	1753.0	1452.0	2225.0
0.0400 (25 years)	2303.0	1856.0	3055.0
0.0200 (50 years)	2735.0	2163.0	3738.0
0.0100 (100 years)	3184.0	2473.0	4472.0
0.0050 (200 years)	3650.0	2788.0	5258.0
0.0020 (500 years)	4295.0	3214.0	6380.0
0.6667 (1.50 years)	603.6		
0.4292 (2.33 years)	894.0		

Lower Peninsula

04164100

East Pond Creek at Romeo, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	27.5	19.1	35.8
0.9900 (1.01 years)	32.1	23.1	41.1
0.9500 (1.05 years)	49.1	38.1	59.7
0.9000 (1.11 years)	61.3	49.3	72.9
0.8000 (1.25 years)	80.0	66.6	93.1
0.5000 (2 years)	131.3	113.8	151.5
0.2000 (5 years)	212.3	182.3	255.0
0.1000 (10 years)	271.4	228.6	337.3
0.0400 (25 years)	351.1	288.2	454.8
0.0200 (50 years)	413.6	333.3	551.4
0.0100 (100 years)	478.5	379.0	655.0
0.0050 (200 years)	546.1	425.6	766.0
0.0020 (500 years)	639.8	488.7	924.8
0.6667 (1.50 years)	102.1		
0.4292 (2.33 years)	145.6		

04164150

North Branch Clinton River at 27 Mile Road near Meade, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	231.8	157.8	307.0
0.9900 (1.01 years)	275.9	194.2	357.4
0.9500 (1.05 years)	438.5	335.4	538.0
0.9000 (1.11 years)	557.3	443.1	667.5
0.8000 (1.25 years)	739.9	612.1	866.9
0.5000 (2 years)	1246.0	1075.0	1448.0
0.2000 (5 years)	2045.0	1744.0	2475.0
0.1000 (10 years)	2621.0	2193.0	3284.0
0.0400 (25 years)	3390.0	2765.0	4427.0
0.0200 (50 years)	3985.0	3193.0	5353.0
0.0100 (100 years)	4597.0	3621.0	6335.0
0.0050 (200 years)	5227.0	4053.0	7376.0
0.0020 (500 years)	6089.0	4632.0	8842.0
0.6667 (1.50 years)	957.6		
0.4292 (2.33 years)	1388.7		

Lower Peninsula

04164200

Coon Creek at North Avenue near Armada, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	37.1	25.4	49.0
0.9900 (1.01 years)	44.5	31.5	57.4
0.9500 (1.05 years)	71.5	55.1	87.2
0.9000 (1.11 years)	91.0	73.0	108.3
0.8000 (1.25 years)	120.6	100.6	140.4
0.5000 (2 years)	200.4	173.8	231.4
0.2000 (5 years)	319.6	274.3	384.0
0.1000 (10 years)	401.6	338.6	498.1
0.0400 (25 years)	506.4	417.4	651.9
0.0200 (50 years)	584.6	474.3	771.3
0.0100 (100 years)	662.4	529.7	893.7
0.0050 (200 years)	740.2	584.0	1019.0
0.0020 (500 years)	843.2	654.6	1189.0
0.6667 (1.50 years)	155.3		
0.4292 (2.33 years)	222.3		

04164250

Tupper Brook at Ray Center, MI

Number of peaks in record: 22

Number of peaks in analysis: 22

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	35.8	19.9	52.0
0.9900 (1.01 years)	41.6	24.2	58.9
0.9500 (1.05 years)	62.7	41.1	83.3
0.9000 (1.11 years)	78.2	54.4	100.9
0.8000 (1.25 years)	102.3	75.8	128.5
0.5000 (2 years)	171.4	137.0	214.3
0.2000 (5 years)	288.5	229.6	389.3
0.1000 (10 years)	379.5	293.9	546.3
0.0400 (25 years)	508.9	379.0	793.7
0.0200 (50 years)	615.7	445.2	1015.0
0.0100 (100 years)	731.0	514.1	1269.0
0.0050 (200 years)	855.8	585.9	1560.0
0.0020 (500 years)	1037.0	686.2	2005.0
0.6667 (1.50 years)	131.6		
0.4292 (2.33 years)	191.3		

Lower Peninsula

04164300

East Branch Coon Creek at Armada, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	126.8	98.5	153.5
0.9000 (1.11 years)	163.6	132.5	192.9
0.8000 (1.25 years)	218.2	184.1	251.7
0.5000 (2 years)	356.9	312.2	409.4
0.2000 (5 years)	542.3	469.3	645.2
0.1000 (10 years)	656.4	559.8	801.7
0.0400 (25 years)	788.6	661.0	991.5
0.0200 (50 years)	878.7	728.1	1125.0
0.0100 (100 years)	961.9	789.1	1251.0
0.0050 (200 years)	1039.0	845.0	1370.0
0.0020 (500 years)	1134.0	912.3	1519.0
0.6667 (1.50 years)	279.9		
0.4292 (2.33 years)	393.6		

04164360

East Branch Coon Creek at 29-Mile Road near New Haven, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	209.9	150.1	268.4
0.9900 (1.01 years)	242.3	178.0	304.2
0.9500 (1.05 years)	357.1	281.2	428.7
0.9000 (1.11 years)	438.2	356.7	515.4
0.8000 (1.25 years)	560.3	471.9	646.5
0.5000 (2 years)	890.7	778.7	1019.0
0.2000 (5 years)	1404.0	1217.0	1668.0
0.1000 (10 years)	1776.0	1511.0	2179.0
0.0400 (25 years)	2275.0	1888.0	2907.0
0.0200 (50 years)	2666.0	2173.0	3503.0
0.0100 (100 years)	3073.0	2463.0	4142.0
0.0050 (200 years)	3496.0	2757.0	4827.0
0.0020 (500 years)	4084.0	3158.0	5808.0
0.6667 (1.50 years)	703.4		
0.4292 (2.33 years)	981.8		

Lower Peninsula

04164400

Deer Creek at 25 1/2 Mile Road near Meade, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	155.9	125.4	182.8
0.9900 (1.01 years)	172.0	141.0	199.2
0.9500 (1.05 years)	223.5	192.0	250.9
0.9000 (1.11 years)	255.9	224.7	283.5
0.8000 (1.25 years)	300.4	269.8	328.7
0.5000 (2 years)	403.8	371.1	439.5
0.2000 (5 years)	534.9	488.7	596.1
0.1000 (10 years)	616.0	556.8	700.2
0.0400 (25 years)	713.2	635.3	830.0
0.0200 (50 years)	782.2	689.6	924.9
0.0100 (100 years)	848.6	741.0	1018.0
0.0050 (200 years)	913.2	790.2	1111.0
0.0020 (500 years)	996.4	852.9	1232.0
0.6667 (1.50 years)	347.7		
0.4292 (2.33 years)	429.3		

04164450

McBride Drain at 24 Mile Road near Macomb, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	52.1	42.4	60.5
0.9900 (1.01 years)	57.3	47.5	65.7
0.9500 (1.05 years)	73.5	63.8	81.9
0.9000 (1.11 years)	83.6	74.1	91.8
0.8000 (1.25 years)	97.1	87.9	105.5
0.5000 (2 years)	127.5	117.9	137.9
0.2000 (5 years)	164.2	151.1	181.5
0.1000 (10 years)	186.1	169.6	209.3
0.0400 (25 years)	211.5	190.3	242.9
0.0200 (50 years)	229.0	204.2	266.7
0.0100 (100 years)	245.5	217.2	289.6
0.0050 (200 years)	261.3	229.4	311.8
0.0020 (500 years)	281.2	244.5	340.3
0.6667 (1.50 years)	111.1		
0.4292 (2.33 years)	134.8		

Lower Peninsula

04164500

North Branch Clinton River near Mt. Clemens, MI

Number of peaks in record: 57

Number of peaks in analysis: 57

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	567.7	421.8	710.9
0.9900 (1.01 years)	656.9	500.0	809.0
0.9500 (1.05 years)	974.0	788.3	1150.0
0.9000 (1.11 years)	1198.0	998.2	1388.0
0.8000 (1.25 years)	1535.0	1318.0	1748.0
0.5000 (2 years)	2446.0	2168.0	2760.0
0.2000 (5 years)	3854.0	3385.0	4491.0
0.1000 (10 years)	4868.0	4204.0	5834.0
0.0400 (25 years)	6224.0	5255.0	7723.0
0.0200 (50 years)	7281.0	6049.0	9254.0
0.0100 (100 years)	8375.0	6853.0	10880.0
0.0050 (200 years)	9510.0	7671.0	12620.0
0.0020 (500 years)	11080.0	8780.0	15080.0
0.6667 (1.50 years)	1929.8		
0.4292 (2.33 years)	2696.5		

04164600

Middle Branch Clinton River at Schoenherr Road near Macomb, MI

Number of peaks in record: 45

Number of peaks in analysis: 45

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9000 (1.11 years)	333.1	285.7	375.9
0.8000 (1.25 years)	394.0	346.0	438.9
0.5000 (2 years)	549.8	496.7	608.1
0.2000 (5 years)	779.8	700.3	887.1
0.1000 (10 years)	942.2	833.7	1101.0
0.0400 (25 years)	1159.0	1004.0	1402.0
0.0200 (50 years)	1328.0	1132.0	1646.0
0.0100 (100 years)	1504.0	1263.0	1908.0
0.0050 (200 years)	1688.0	1396.0	2190.0
0.0020 (500 years)	1946.0	1580.0	2595.0
0.6667 (1.50 years)	462.8		
0.4292 (2.33 years)	590.8		

Lower Peninsula

04164800

Middle Branch Clinton River at Macomb, MI

Number of peaks in record: 33

Number of peaks in analysis: 33

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.8000 (1.25 years)	743.2	668.4	809.6
0.5000 (2 years)	943.7	869.8	1024.0
0.2000 (5 years)	1189.0	1091.0	1323.0
0.1000 (10 years)	1337.0	1215.0	1519.0
0.0400 (25 years)	1512.0	1355.0	1761.0
0.0200 (50 years)	1636.0	1451.0	1937.0
0.0100 (100 years)	1753.0	1540.0	2109.0
0.0050 (200 years)	1867.0	1626.0	2279.0
0.0020 (500 years)	2014.0	1734.0	2501.0
0.6667 (1.50 years)	836.0		
0.4292 (2.33 years)	991.9		

04165200

Gloede Ditch near Waldenburg, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	149.6	122.5	173.2
0.9000 (1.11 years)	174.9	147.6	198.8
0.8000 (1.25 years)	209.8	182.6	234.9
0.5000 (2 years)	292.0	262.3	325.5
0.2000 (5 years)	396.9	354.3	456.8
0.1000 (10 years)	461.7	406.9	545.0
0.0400 (25 years)	538.9	466.9	655.3
0.0200 (50 years)	593.3	508.0	735.9
0.0100 (100 years)	645.3	546.5	815.0
0.0050 (200 years)	695.6	583.1	892.9
0.0020 (500 years)	759.8	629.1	994.7
0.6667 (1.50 years)	247.3		
0.4292 (2.33 years)	312.5		

Lower Peninsula

04165500

Clinton River at Moravian Drive at Mt. Clemens, MI

Number of peaks in record: 70

Number of peaks in analysis: 70

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1690.0	1333.0	2035.0
0.9900 (1.01 years)	1905.0	1528.0	2266.0
0.9500 (1.05 years)	2657.0	2230.0	3061.0
0.9000 (1.11 years)	3182.0	2731.0	3612.0
0.8000 (1.25 years)	3970.0	3487.0	4440.0
0.5000 (2 years)	6112.0	5512.0	6775.0
0.2000 (5 years)	9516.0	8510.0	10830.0
0.1000 (10 years)	12050.0	10610.0	14060.0
0.0400 (25 years)	15550.0	13390.0	18730.0
0.0200 (50 years)	18370.0	15570.0	22640.0
0.0100 (100 years)	21360.0	17840.0	26900.0
0.0050 (200 years)	24560.0	20210.0	31550.0
0.0020 (500 years)	29120.0	23520.0	38370.0
0.6667 (1.50 years)	4895.7		
0.4292 (2.33 years)	6702.8		

04166000

River Rouge at Birmingham, MI

Number of peaks in record: 54

Number of peaks in analysis: 54

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	75.2	53.2	97.4
0.9900 (1.01 years)	90.1	65.8	114.3
0.9500 (1.05 years)	145.1	114.5	174.5
0.9000 (1.11 years)	184.9	151.1	217.3
0.8000 (1.25 years)	245.2	207.7	282.3
0.5000 (2 years)	407.4	357.3	465.3
0.2000 (5 years)	649.7	563.8	768.5
0.1000 (10 years)	816.1	696.5	993.2
0.0400 (25 years)	1029.0	859.4	1294.0
0.0200 (50 years)	1187.0	977.1	1527.0
0.0100 (100 years)	1344.0	1092.0	1764.0
0.0050 (200 years)	1501.0	1204.0	2007.0
0.0020 (500 years)	1709.0	1351.0	2335.0
0.6667 (1.50 years)	315.7		
0.4292 (2.33 years)	452.1		

Lower Peninsula

04166100

River Rouge at Southfield, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	389.4	292.0	481.4
0.9900 (1.01 years)	437.2	334.9	532.8
0.9500 (1.05 years)	601.6	487.5	706.7
0.9000 (1.11 years)	714.4	595.2	825.1
0.8000 (1.25 years)	881.1	755.8	1001.0
0.5000 (2 years)	1323.0	1173.0	1491.0
0.2000 (5 years)	1999.0	1759.0	2329.0
0.1000 (10 years)	2487.0	2152.0	2987.0
0.0400 (25 years)	3145.0	2657.0	3926.0
0.0200 (50 years)	3665.0	3043.0	4700.0
0.0100 (100 years)	4208.0	3436.0	5535.0
0.0050 (200 years)	4778.0	3840.0	6437.0
0.0020 (500 years)	5579.0	4394.0	7741.0
0.6667 (1.50 years)	1073.8		
0.4292 (2.33 years)	1442.2		

04166200

Evans Ditch at Southfield, MI

Number of peaks in record: 46

Number of peaks in analysis: 43

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	130.1	95.4	162.8
0.9900 (1.01 years)	150.3	113.4	184.5
0.9500 (1.05 years)	219.0	177.4	256.7
0.9000 (1.11 years)	264.9	221.6	304.4
0.8000 (1.25 years)	330.4	285.5	373.0
0.5000 (2 years)	490.4	437.5	550.5
0.2000 (5 years)	702.1	621.3	814.1
0.1000 (10 years)	835.4	729.2	993.4
0.0400 (25 years)	995.4	853.7	1219.0
0.0200 (50 years)	1109.0	939.4	1384.0
0.0100 (100 years)	1217.0	1020.0	1546.0
0.0050 (200 years)	1322.0	1096.0	1705.0
0.0020 (500 years)	1455.0	1192.0	1913.0
0.6667 (1.50 years)	402.4		
0.4292 (2.33 years)	531.5		

Lower Peninsula

04166300

Upper River Rouge at Farmington, MI

Number of peaks in record: 46

Number of peaks in analysis: 46

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	61.1	41.9	80.5
0.9900 (1.01 years)	71.8	50.8	92.7
0.9500 (1.05 years)	111.2	85.0	136.5
0.9000 (1.11 years)	140.0	111.1	168.0
0.8000 (1.25 years)	184.6	152.2	216.7
0.5000 (2 years)	310.7	267.2	361.3
0.2000 (5 years)	517.5	440.6	627.7
0.1000 (10 years)	673.0	561.4	846.8
0.0400 (25 years)	887.8	720.2	1168.0
0.0200 (50 years)	1060.0	842.9	1439.0
0.0100 (100 years)	1242.0	969.0	1735.0
0.0050 (200 years)	1434.0	1099.0	2058.0
0.0020 (500 years)	1705.0	1279.0	2529.0
0.6667 (1.50 years)	238.3		
0.4292 (2.33 years)	346.5		

04166500

River Rouge at Detroit, MI

Number of peaks in record: 74

Number of peaks in analysis: 74

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	910.5	761.9	1053.0
0.9000 (1.11 years)	1085.0	926.8	1237.0
0.8000 (1.25 years)	1353.0	1182.0	1522.0
0.5000 (2 years)	2121.0	1904.0	2361.0
0.2000 (5 years)	3447.0	3068.0	3940.0
0.1000 (10 years)	4508.0	3943.0	5298.0
0.0400 (25 years)	6071.0	5178.0	7398.0
0.0200 (50 years)	7404.0	6197.0	9265.0
0.0100 (100 years)	8889.0	7304.0	11410.0
0.0050 (200 years)	10550.0	8512.0	13870.0
0.0020 (500 years)	13030.0	10280.0	17670.0
0.6667 (1.50 years)	1679.0		
0.4292 (2.33 years)	2339.8		

Lower Peninsula

04167000

Middle River Rouge near Garden City, MI

Number of peaks in record: 60

Number of peaks in analysis: 60

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	572.8	495.0	642.9
0.9000 (1.11 years)	667.5	589.0	738.8
0.8000 (1.25 years)	799.6	720.7	873.9
0.5000 (2 years)	1114.0	1026.0	1211.0
0.2000 (5 years)	1526.0	1396.0	1695.0
0.1000 (10 years)	1787.0	1616.0	2021.0
0.0400 (25 years)	2103.0	1875.0	2431.0
0.0200 (50 years)	2330.0	2056.0	2734.0
0.0100 (100 years)	2550.0	2229.0	3034.0
0.0050 (200 years)	2765.0	2396.0	3332.0
0.0020 (500 years)	3045.0	2610.0	3726.0
0.6667 (1.50 years)	942.4		
0.4292 (2.33 years)	1193.7		

04168000

Lower River Rouge at Inkster, MI

Number of peaks in record: 60

Number of peaks in analysis: 60

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	623.2	523.8	715.1
0.9000 (1.11 years)	739.6	636.3	835.8
0.8000 (1.25 years)	909.4	801.6	1013.0
0.5000 (2 years)	1347.0	1219.0	1489.0
0.2000 (5 years)	1991.0	1787.0	2259.0
0.1000 (10 years)	2439.0	2158.0	2834.0
0.0400 (25 years)	3025.0	2626.0	3621.0
0.0200 (50 years)	3476.0	2975.0	4246.0
0.0100 (100 years)	3936.0	3324.0	4902.0
0.0050 (200 years)	4410.0	3678.0	5592.0
0.0020 (500 years)	5060.0	4154.0	6560.0
0.6667 (1.50 years)	1102.4		
0.4292 (2.33 years)	1463.9		

Lower Peninsula

04168660

Frank And Poet Drain at King Road at Trenton, MI

Number of peaks in record: 33

Number of peaks in analysis: 33

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	146.2	117.5	170.2
0.9900 (1.01 years)	156.7	128.0	180.6
0.9500 (1.05 years)	190.1	161.9	213.6
0.9000 (1.11 years)	211.1	183.7	234.5
0.8000 (1.25 years)	240.2	213.8	263.8
0.5000 (2 years)	309.4	282.8	338.2
0.2000 (5 years)	401.5	365.7	451.0
0.1000 (10 years)	461.6	415.3	531.3
0.0400 (25 years)	537.0	474.7	637.4
0.0200 (50 years)	592.8	517.3	719.3
0.0100 (100 years)	648.6	558.9	803.2
0.0050 (200 years)	704.8	600.0	889.9
0.0020 (500 years)	780.2	654.2	1009.0
0.6667 (1.50 years)	271.6		
0.4292 (2.33 years)	326.6		

04169500

Huron River at Commerce, MI

Number of peaks in record: 33

Number of peaks in analysis: 33

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	41.8	31.5	50.8
0.9900 (1.01 years)	45.9	35.4	55.0
0.9500 (1.05 years)	59.2	48.3	68.7
0.9000 (1.11 years)	68.0	57.0	77.6
0.8000 (1.25 years)	80.3	69.4	90.4
0.5000 (2 years)	110.8	99.0	124.0
0.2000 (5 years)	153.5	136.4	177.7
0.1000 (10 years)	182.2	159.5	217.3
0.0400 (25 years)	218.9	187.6	271.1
0.0200 (50 years)	246.6	208.1	313.6
0.0100 (100 years)	274.7	228.4	357.9
0.0050 (200 years)	303.2	248.5	404.2
0.0020 (500 years)	341.9	275.3	469.0
0.6667 (1.50 years)	94.0		
0.4292 (2.33 years)	118.7		

Lower Peninsula

04170000

Huron River at Milford, MI

Number of peaks in record: 56

Number of peaks in analysis: 56

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	136.7	114.8	156.1
0.9900 (1.01 years)	148.2	126.1	167.6
0.9500 (1.05 years)	184.8	162.8	204.2
0.9000 (1.11 years)	208.0	186.3	227.3
0.8000 (1.25 years)	240.0	218.9	259.6
0.5000 (2 years)	316.1	293.8	340.0
0.2000 (5 years)	416.7	385.3	457.0
0.1000 (10 years)	481.8	440.8	537.8
0.0400 (25 years)	562.6	507.4	642.2
0.0200 (50 years)	622.0	555.1	721.2
0.0100 (100 years)	680.9	601.5	801.1
0.0050 (200 years)	739.8	647.3	882.4
0.0020 (500 years)	818.1	707.4	992.5
0.6667 (1.50 years)	274.5		
0.4292 (2.33 years)	335.1		

04172000

Huron River near Hamburg, MI

Number of peaks in record: 53

Number of peaks in analysis: 53

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	270.9	225.6	310.6
0.9900 (1.01 years)	294.8	249.1	334.7
0.9500 (1.05 years)	370.7	325.2	410.5
0.9000 (1.11 years)	418.5	373.7	458.2
0.8000 (1.25 years)	484.1	440.5	524.4
0.5000 (2 years)	637.9	592.1	687.3
0.2000 (5 years)	837.2	772.9	920.4
0.1000 (10 years)	963.7	880.4	1078.0
0.0400 (25 years)	1118.0	1007.0	1279.0
0.0200 (50 years)	1230.0	1097.0	1429.0
0.0100 (100 years)	1340.0	1184.0	1579.0
0.0050 (200 years)	1449.0	1268.0	1730.0
0.0020 (500 years)	1591.0	1377.0	1931.0
0.6667 (1.50 years)	554.2		
0.4292 (2.33 years)	676.0		

Lower Peninsula

04172500

Portage River at Tiplady Road near Pinckney, MI

Number of peaks in record: 35

Number of peaks in analysis: 35

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	56.8	41.5	70.8
0.9900 (1.01 years)	63.3	47.4	77.8
0.9500 (1.05 years)	85.4	68.1	100.9
0.9000 (1.11 years)	100.2	82.4	116.3
0.8000 (1.25 years)	121.7	103.3	138.9
0.5000 (2 years)	176.6	155.7	200.3
0.2000 (5 years)	256.7	224.9	302.3
0.1000 (10 years)	312.4	269.1	380.2
0.0400 (25 years)	385.3	324.2	488.5
0.0200 (50 years)	441.4	365.0	575.8
0.0100 (100 years)	498.8	405.7	668.3
0.0050 (200 years)	558.0	446.8	766.6
0.0020 (500 years)	639.3	501.9	906.0
0.6667 (1.50 years)	145.9		
0.4292 (2.33 years)	191.1		

04173000

Huron River near Dexter, MI

Number of peaks in record: 34

Number of peaks in analysis: 34

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	364.2	261.1	459.1
0.9900 (1.01 years)	408.8	300.9	507.0
0.9500 (1.05 years)	560.0	441.3	666.4
0.9000 (1.11 years)	662.0	539.1	773.1
0.8000 (1.25 years)	810.1	683.0	929.8
0.5000 (2 years)	1190.0	1044.0	1357.0
0.2000 (5 years)	1745.0	1520.0	2069.0
0.1000 (10 years)	2129.0	1823.0	2613.0
0.0400 (25 years)	2630.0	2199.0	3368.0
0.0200 (50 years)	3015.0	2477.0	3974.0
0.0100 (100 years)	3407.0	2753.0	4615.0
0.0050 (200 years)	3810.0	3030.0	5293.0
0.0020 (500 years)	4362.0	3401.0	6253.0
0.6667 (1.50 years)	977.8		
0.4292 (2.33 years)	1290.7		

Lower Peninsula

04173250

Mill Creek near Lima Center, MI

Number of peaks in record: 20

Number of peaks in analysis: 20

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	161.3	109.8	203.8
0.9900 (1.01 years)	179.9	127.1	222.9
0.9500 (1.05 years)	239.2	185.1	282.6
0.9000 (1.11 years)	276.2	222.9	319.7
0.8000 (1.25 years)	326.1	274.6	371.2
0.5000 (2 years)	438.2	386.0	499.1
0.2000 (5 years)	572.2	502.2	681.4
0.1000 (10 years)	650.7	563.7	800.4
0.0400 (25 years)	740.1	630.3	944.6
0.0200 (50 years)	800.8	674.0	1047.0
0.0100 (100 years)	857.3	713.6	1145.0
0.0050 (200 years)	910.2	750.1	1239.0
0.0020 (500 years)	976.0	794.6	1360.0
0.6667 (1.50 years)	378.0		
0.4292 (2.33 years)	465.4		

04173500

Mill Creek near Dexter, MI

Number of peaks in record: 41

Number of peaks in analysis: 41

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	457.1	393.4	511.6
0.9000 (1.11 years)	517.7	455.3	571.9
0.8000 (1.25 years)	600.0	539.6	655.0
0.5000 (2 years)	788.0	725.6	856.4
0.2000 (5 years)	1022.0	936.2	1138.0
0.1000 (10 years)	1166.0	1056.0	1323.0
0.0400 (25 years)	1336.0	1193.0	1552.0
0.0200 (50 years)	1456.0	1288.0	1719.0
0.0100 (100 years)	1571.0	1376.0	1883.0
0.0050 (200 years)	1682.0	1461.0	2044.0
0.0020 (500 years)	1826.0	1568.0	2255.0
0.6667 (1.50 years)	686.5		
0.4292 (2.33 years)	833.9		

Lower Peninsula

04174500

Huron River at Ann Arbor, MI

Number of peaks in record: 100

Number of peaks in analysis: 96

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	944.9	823.6	1059.0
0.9000 (1.11 years)	1153.0	1026.0	1273.0
0.8000 (1.25 years)	1452.0	1318.0	1581.0
0.5000 (2 years)	2185.0	2021.0	2365.0
0.2000 (5 years)	3160.0	2898.0	3484.0
0.1000 (10 years)	3772.0	3425.0	4225.0
0.0400 (25 years)	4506.0	4039.0	5138.0
0.0200 (50 years)	5024.0	4464.0	5796.0
0.0100 (100 years)	5518.0	4865.0	6434.0
0.0050 (200 years)	5993.0	5246.0	7055.0
0.0020 (500 years)	6597.0	5725.0	7855.0
0.6667 (1.50 years)	1780.9		
0.4292 (2.33 years)	2374.4		

04175600

River Raisin near Manchester, MI

Number of peaks in record: 32

Number of peaks in analysis: 32

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	213.2	178.9	241.0
0.9900 (1.01 years)	223.6	189.6	251.0
0.9500 (1.05 years)	256.6	224.3	283.0
0.9000 (1.11 years)	277.5	246.5	303.5
0.8000 (1.25 years)	306.7	277.3	332.5
0.5000 (2 years)	377.0	348.8	406.9
0.2000 (5 years)	473.1	436.6	522.6
0.1000 (10 years)	537.2	490.3	607.1
0.0400 (25 years)	619.1	555.6	721.0
0.0200 (50 years)	681.1	603.3	810.6
0.0100 (100 years)	744.0	650.6	904.0
0.0050 (200 years)	808.2	698.1	1002.0
0.0020 (500 years)	896.0	761.7	1139.0
0.6667 (1.50 years)	338.5		
0.4292 (2.33 years)	394.5		

Lower Peninsula

04175700 **River Raisin near Tecumseh, MI**

Number of peaks in record: 24
 Number of peaks in analysis: 24

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	696.7	570.5	799.4
0.9000 (1.11 years)	771.0	647.5	873.7
0.8000 (1.25 years)	875.5	756.2	980.0
0.5000 (2 years)	1132.0	1013.0	1262.0
0.2000 (5 years)	1489.0	1331.0	1722.0
0.1000 (10 years)	1732.0	1525.0	2070.0
0.0400 (25 years)	2046.0	1762.0	2552.0
0.0200 (50 years)	2285.0	1936.0	2940.0
0.0100 (100 years)	2530.0	2109.0	3351.0
0.0050 (200 years)	2781.0	2282.0	3788.0
0.0020 (500 years)	3127.0	2514.0	4410.0
0.6667 (1.50 years)	990.4		
0.4292 (2.33 years)	1196.5		

04176000 **River Raisin near Adrian, MI**

Number of peaks in record: 51
 Number of peaks in analysis: 51

Annual Exceedance Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9500 (1.05 years)	1358.0	1138.0	1558.0
0.9000 (1.11 years)	1603.0	1378.0	1810.0
0.8000 (1.25 years)	1952.0	1721.0	2171.0
0.5000 (2 years)	2813.0	2548.0	3108.0
0.2000 (5 years)	3994.0	3590.0	4534.0
0.1000 (10 years)	4769.0	4231.0	5540.0
0.0400 (25 years)	5737.0	5000.0	6852.0
0.0200 (50 years)	6449.0	5550.0	7851.0
0.0100 (100 years)	7153.0	6085.0	8862.0
0.0050 (200 years)	7854.0	6608.0	9890.0
0.0020 (500 years)	8783.0	7290.0	11280.0
0.6667 (1.50 years)	2337.9		
0.4292 (2.33 years)	3035.4		

Lower Peninsula

04176400

Saline River near Saline, MI

Number of peaks in record: 39

Number of peaks in analysis: 39

Annual Exceedence Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	359.2	264.6	446.9
0.9900 (1.01 years)	402.3	303.4	493.0
0.9500 (1.05 years)	548.7	439.9	647.1
0.9000 (1.11 years)	647.7	535.0	750.7
0.8000 (1.25 years)	792.4	675.4	903.3
0.5000 (2 years)	1167.0	1031.0	1321.0
0.2000 (5 years)	1724.0	1512.0	2022.0
0.1000 (10 years)	2115.0	1824.0	2561.0
0.0400 (25 years)	2632.0	2218.0	3317.0
0.0200 (50 years)	3033.0	2511.0	3930.0
0.0100 (100 years)	3446.0	2807.0	4583.0
0.0050 (200 years)	3875.0	3107.0	5279.0
0.0020 (500 years)	4467.0	3512.0	6273.0
0.6667 (1.50 years)	957.3		
0.4292 (2.33 years)	1267.3		

04176500

River Raisin near Monroe, MI

Number of peaks in record: 67

Number of peaks in analysis: 67

Annual Exceedence Probability	Qp Estimate per Bulletin 17B	95 Percent Confidence, Lower	95 Percent Confidence, Upper
0.9950 (1.005 years)	1598.0	1253.0	1929.0
0.9900 (1.01 years)	1847.0	1480.0	2194.0
0.9500 (1.05 years)	2700.0	2284.0	3087.0
0.9000 (1.11 years)	3276.0	2841.0	3682.0
0.8000 (1.25 years)	4104.0	3648.0	4544.0
0.5000 (2 years)	6161.0	5608.0	6774.0
0.2000 (5 years)	8952.0	8080.0	10080.0
0.1000 (10 years)	10750.0	9582.0	12350.0
0.0400 (25 years)	12940.0	11360.0	15220.0
0.0200 (50 years)	14520.0	12600.0	17340.0
0.0100 (100 years)	16040.0	13790.0	19440.0
0.0050 (200 years)	17540.0	14940.0	21520.0
0.0020 (500 years)	19460.0	16400.0	24260.0
0.6667 (1.50 years)	5024.2		
0.4292 (2.33 years)	6695.0		