Annual Peak-Flow Frequency Analysis
For more information on the contents of this documentation, see Kessler and others (2013).

Streamgage number and name:

05288705 Shingle Creek at Queen Avenue in Minneapolis, Minn.

Peak-flow information:

Number of systematic peak flows in record	15
Systematic period begins	1996
Systematic period ends	2011
Length of systematic record	16
Years without information	1
Number of historical peak flows in record	0

Frequency analysis options:

Method	Bulletin 17B
Skew option	STATION SKEW
Low-outlier method	Bulletin 17B Grubbs-Beck test

Bulletin 17B systematic record analysis results:

Moments of the common logarithms of the peak flows:

Mean	Standard deviation	Skewness
2.3038	0.1018	-0.135

Outlier criteria and number of peak flows exceeding:

Low	118.9	0
High	340.8	0

Bulletin 17B Final analysis results:

Moments of the common logarithms of the peak flows:

Mean	Standard deviation	Skewness
2.3038	0.1018	-0.135

Annual frequency curve at selected exceedance probabilities:

Exceedance probability	Peak estimate	Lower-95 level	Upper-95 level
0.9950	107	78.4	127
0.9900	114	86.0	134
0.9500	136	110.0	154
0.9000	149	124.0	167
0.8000	166	143.0	184
0.6667	183	162.0	202
0.5000	202	182.0	225
0.4292	211	191.0	236
0.2000	246	221.0	284
0.1000	271	242.0	324
0.0400	300	264.0	372
0.0200	320	278.0	407
0.0100	339	291.0	442
0.0050	357	304.0	475
0.0020	380	319.0	519

Peak-flow data used in the analysis:

Explanation of symbols and codes

K Peak affected by regulation

Water year	Peak flow	Peak-flow code
1996	210	K
1997	225	K
1998	169	K
1999	126	K
Gap in systematic record		
2001	186	K
2002	222	K
2003	230	K
2004	148	K
2005	291	K
2006	238	K
2007	185	K
2008	166	K
2009	211	K
2010	189	K
2011	301	K