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

Streamgage number and name:

05129650 Little Fork River at Cook, Minn.

Peak-flow information:

Number of systematic peak flows in record	17
Systematic period begins	1968
Systematic period ends	1984
Length of systematic record	17
Years without information	0
Number of historical peak flows in record	0

Frequency analysis options:

Method	Bulletin 17B
Skew option	Weighted
Generalized skew	0.02
Standard error of generalized skew	0.426
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
2.7342	0.2422	1.000

Outlier criteria and number of peak flows exceeding:

Low	149.6	0
High	1965.7	1

Bulletin 17B Final analysis results:

Moments of the common logarithms of the peak flows:

Mean	Standard deviation	Skewness
2.7342	0.2422	0.316

Annual frequency curve at selected exceedance probabilities:

[WIE, Weighted independent estimate; ––, not computed]

Exceedance probability	Peak estimate	Lower-95 level	Upper 95 level	WIE estimate	Lower-95 WIE level	Upper 95 WIE level
0.9950	152	84.9	216	––	––	––
0.9900	169	97.9	235	––	––	––
0.9500	228	147.0	302	––	––	––
0.9000	271	185.0	350	––	––	––
0.8000	337	244.0	426	––	––	––
0.6667	417	318.0	521	––	––	––
0.5000	527	416.0	663	513	400	658
0.4292	582	464.0	740	––	––	––
0.2000	858	680.0	1,180	828	611	1,120
0.1000	1,130	868.0	1,670	1,080	752	1,540
0.0400	1,530	1,120.0	2,510	1,420	919	2,190
0.0200	1,870	1,330.0	3,310	1,690	1,030	2,760
0.0100	2,260	1,550.0	4,280	1,980	1,140	3,440
0.0050	2,690	1,780.0	5,460	––	––	––
0.0020	3,350	2,120.0	7,380	2,710	1,380	5,320

Peak-flow data used in the analysis:

Explanation of symbols and codes

−− none

Water year	Peak flow	Peak-flow code
1968	431	−−
1969	900	−−
1970	2,200	−−
1971	745	−−
1972	523	−−
1973	250	−−
1974	502	−−
1975	747	−−
1976	350	−−
1977	1,030	−−
1978	360	−−
1979	992	−−
1980	305	−−
1981	354	−−
1982	463	−−
1983	380	−−
1984	398	−−