

U. S. GEOLOGICAL SURVEY
 ANNUAL PEAK FLOW FREQUENCY ANALYSIS
 Following Bulletin 17-B Guidelines
 Program peakfq
 (Version 4.0, December, 2000)

Station - 04086340 NORTH BRANCH MILWAUKEE RIVER NEAR FILLMORE, WI
 2002 MAR 13 09:02:40

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	13
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	13
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.376
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	0.0
User supplied high outlier threshold	=	--
User supplied low outlier criterion	=	--
Plotting position parameter	=	0.00

***** NOTICE -- Preliminary machine computations. *****
 ***** User responsible for assessment and interpretation. *****

WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.	0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	169.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	3464.2

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.8839	0.3014	-0.128
BULL.17B ESTIMATE	0.0	1.0000	2.8839	0.3014	-0.266

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY' ESTIMATE	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
				LOWER	UPPER
0.9950	107.8	117.8	64.0	37.2	189.7
0.9900	133.2	142.7	90.0	50.7	224.0
0.9500	232.5	238.4	197.1	113.8	350.7
0.9000	309.1	311.7	279.9	170.3	445.3
0.8000	431.4	428.8	411.1	268.8	598.5
0.5000	789.4	776.9	789.4	566.1	1109.0
0.2000	1383.0	1378.0	1439.0	995.3	2233.0
0.1000	1823.0	1845.0	1967.0	1272.0	3256.0
0.0400	2416.0	2501.0	2769.0	1614.0	4846.0
0.0200	2879.0	3035.0	3477.0	1863.0	6232.0
0.0100	3356.0	3603.0	4296.0	2108.0	7779.0
0.0050	3847.0	4208.0	5254.0	2352.0	9490.0
0.0020	4519.0	5068.0	6770.0	2671.0	12010.0
0.6667	582.5	(1.50-year flood)			
0.4292	893.7	(2.33-year flood)			

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I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1969	460.0		1976	614.0	
1970	186.0		1977	323.0	
1971	664.0		1978	860.0	
1972	955.0		1979	1030.0	
1973	925.0		1980	875.0	
1974	1600.0		1981	810.0	
1975	3100.0				

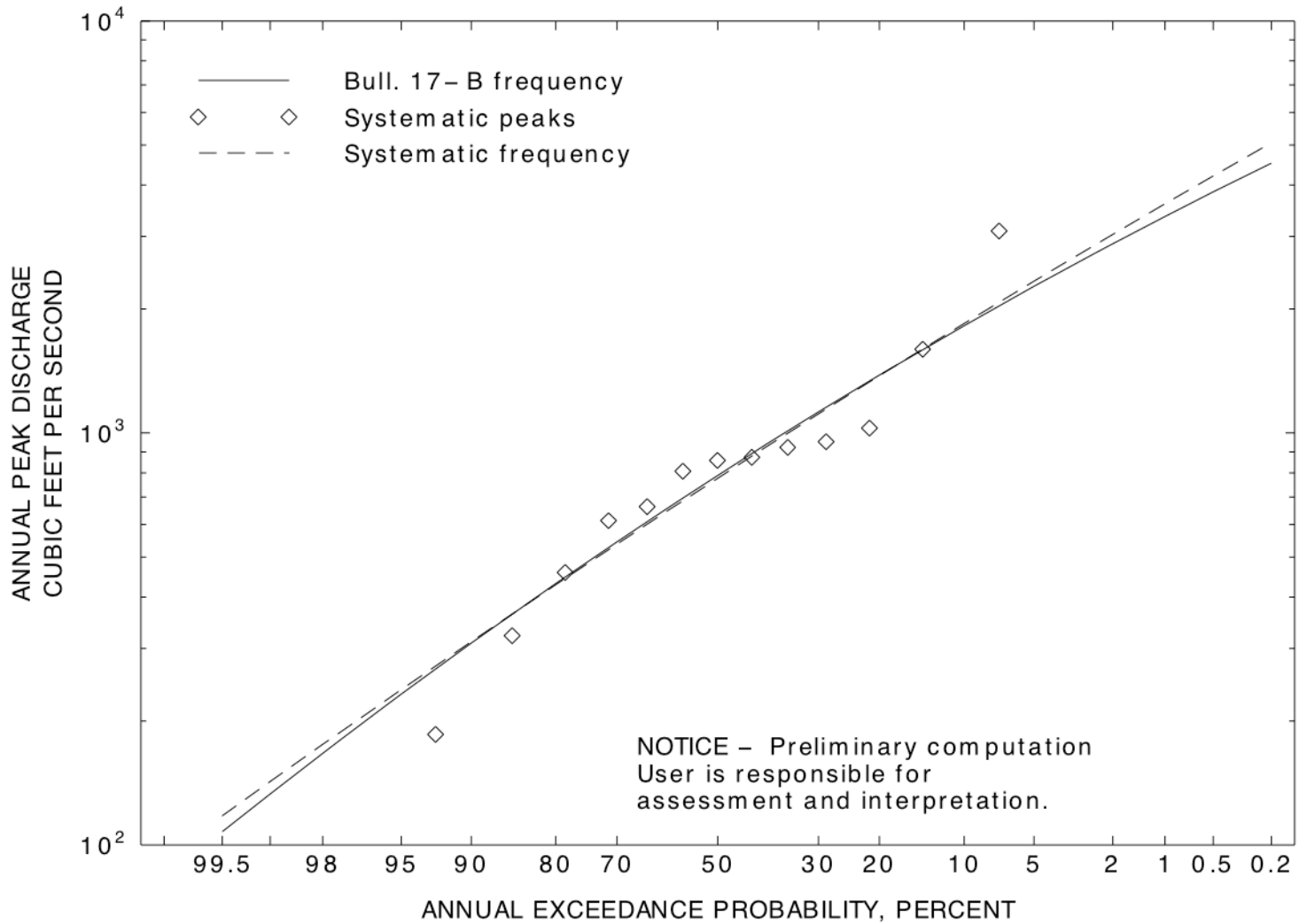
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1975	3100.0	0.0714	0.0714
1974	1600.0	0.1429	0.1429
1979	1030.0	0.2143	0.2143
1972	955.0	0.2857	0.2857
1973	925.0	0.3571	0.3571
1980	875.0	0.4286	0.4286
1978	860.0	0.5000	0.5000
1981	810.0	0.5714	0.5714
1971	664.0	0.6429	0.6429
1976	614.0	0.7143	0.7143
1969	460.0	0.7857	0.7857
1977	323.0	0.8571	0.8571
1970	186.0	0.9286	0.9286



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