

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

Station - 04086200 EAST BRANCH MILWAUKEE RIVER AT NEW FANE, 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	=	-0.374
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.	56.1
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	790.0

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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	2.3235	0.2640	0.162
BULL.17B ESTIMATE	0.0	1.0000	2.3235	0.2640	-0.137

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	40.7	48.3	27.0	16.6	65.7
0.9900	48.2	55.1	35.3	21.3	75.1
0.9500	75.7	79.7	66.2	40.9	108.2
0.9000	95.8	97.7	88.3	57.0	131.8
0.8000	126.8	125.7	121.8	83.7	169.0
0.5000	213.5	207.2	213.5	159.3	287.2
0.2000	352.5	349.4	365.8	264.4	535.9
0.1000	454.7	463.5	488.4	331.4	758.7
0.0400	592.9	630.9	675.6	414.3	1104.0
0.0200	701.6	773.1	843.5	475.3	1406.0
0.0100	814.7	930.7	1042.0	536.0	1747.0
0.0050	932.4	1105.0	1278.0	596.7	2127.0
0.0020	1096.0	1365.0	1665.0	677.6	2694.0
0.6667	164.0	(1.50-year flood)			
0.4292	238.0	(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	96.0		1976	312.0	
1970	68.0		1977	211.0	
1971	190.0		1978	285.0	
1972	170.0		1979	410.0	
1973	196.0		1980	137.0	
1974	210.0		1981	236.0	
1975	743.0				

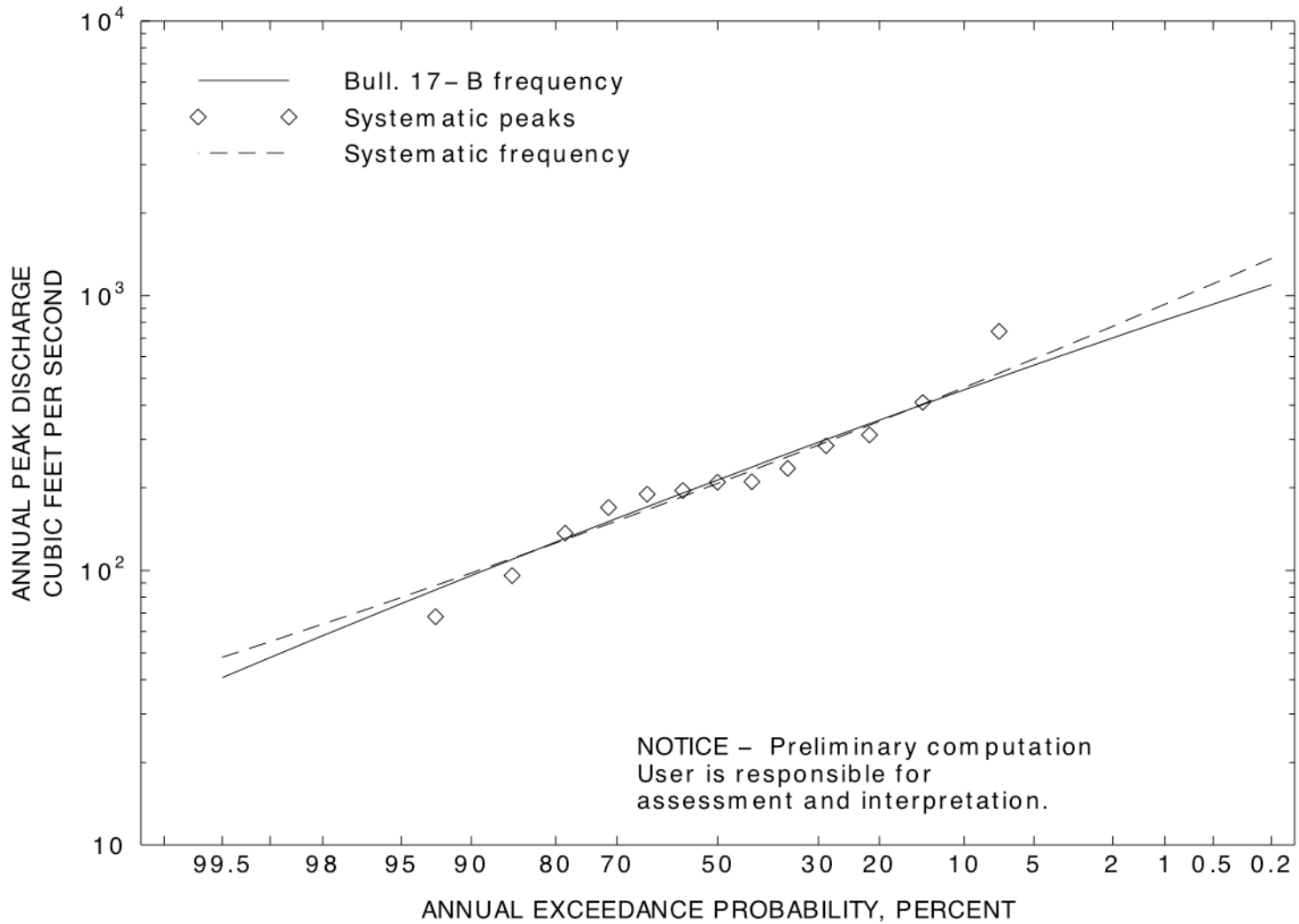
Explanation of peak discharge qualification codes

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	743.0	0.0714	0.0714
1979	410.0	0.1429	0.1429
1976	312.0	0.2143	0.2143
1978	285.0	0.2857	0.2857
1981	236.0	0.3571	0.3571
1977	211.0	0.4286	0.4286
1974	210.0	0.5000	0.5000
1973	196.0	0.5714	0.5714
1971	190.0	0.6429	0.6429
1972	170.0	0.7143	0.7143
1980	137.0	0.7857	0.7857
1969	96.0	0.8571	0.8571
1970	68.0	0.9286	0.9286



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