

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

Station - 05401535 BIG ROCHE A CRI CREEK NEAR ADAMS, WI
 2002 MAR 13 09:03:06

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

Number of peaks in record	=	15
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	15
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.364
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	486.6
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		59.4

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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	2.2304	0.2033	1.295
BULL.17B ESTIMATE	0.0	1.0000	2.2304	0.2033	0.205

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	55.7	87.1	46.1	31.9	76.6
0.9900	61.4	88.8	52.9	36.6	82.8
0.9500	81.0	96.6	75.3	53.8	104.0
0.9000	94.3	103.2	90.1	66.2	118.5
0.8000	114.2	114.8	111.5	85.2	140.5
0.5000	167.3	154.1	167.3	135.4	205.9
0.2000	250.7	238.1	257.6	203.9	335.0
0.1000	312.6	318.1	330.5	248.1	448.7
0.0400	398.3	455.8	442.6	304.4	625.5
0.0200	467.7	591.7	545.5	347.1	782.5
0.0100	541.8	763.2	670.0	390.9	962.4
0.0050	621.1	979.4	822.0	436.0	1168.0
0.0020	735.2	1354.0	1083.0	498.2	1484.0
0.6667	137.2	(1.50-year flood)			
0.4292	181.7	(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
1964	78.0		1972	250.0	
1965	136.0		1973	623.0	
1966	178.0		1974	174.0	
1967	142.0		1975	250.0	
1968	150.0		1976	159.0	
1969	168.0		1977	95.0	
1970	142.0		1978	167.0	
1971	174.0				

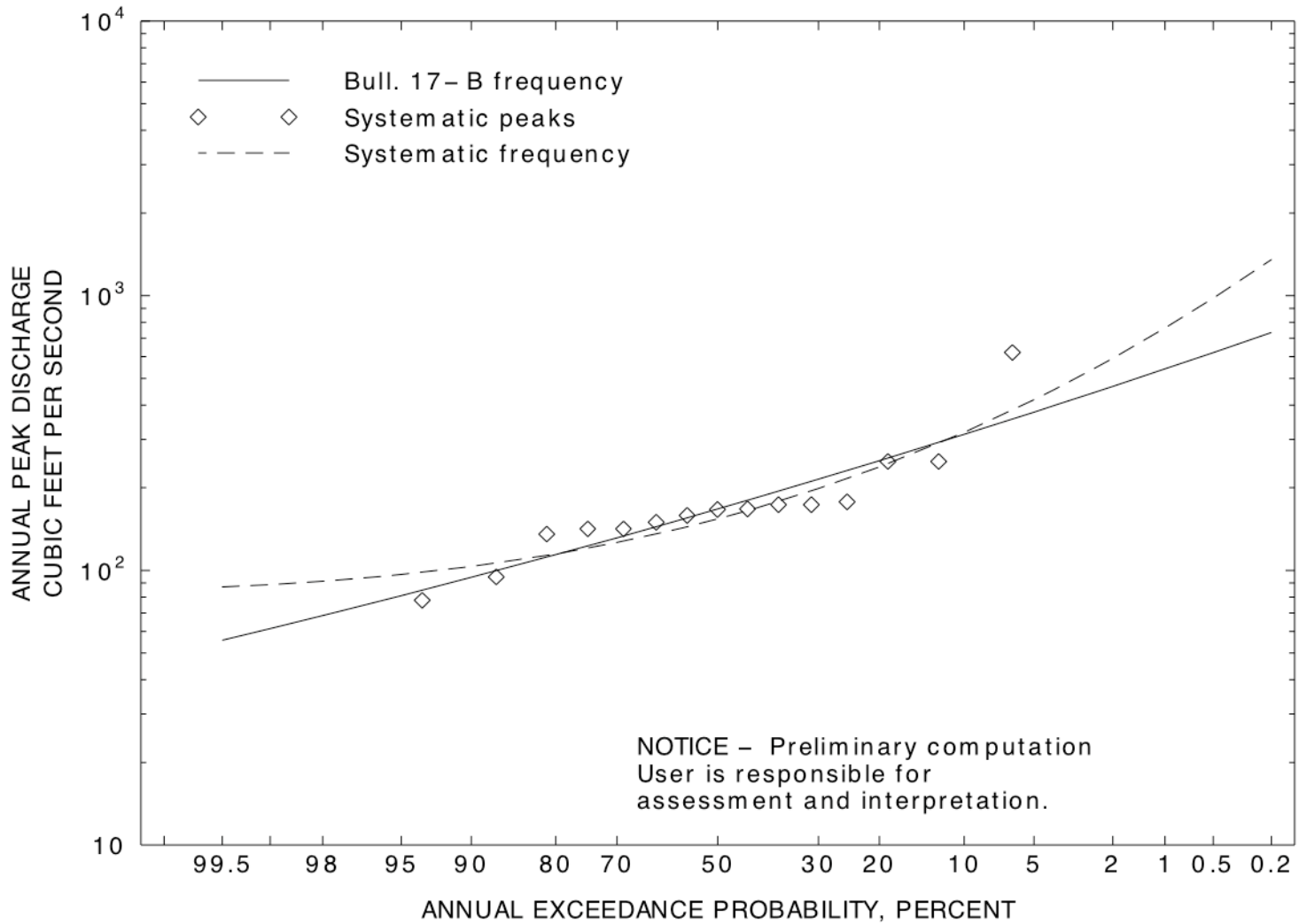
Explanation of peak discharge qualification codes

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
1973	623.0	0.0625	0.0625
1972	250.0	0.1250	0.1250
1975	250.0	0.1875	0.1875
1966	178.0	0.2500	0.2500
1971	174.0	0.3125	0.3125
1974	174.0	0.3750	0.3750
1969	168.0	0.4375	0.4375
1978	167.0	0.5000	0.5000
1976	159.0	0.5625	0.5625
1968	150.0	0.6250	0.6250
1967	142.0	0.6875	0.6875
1970	142.0	0.7500	0.7500
1965	136.0	0.8125	0.8125
1977	95.0	0.8750	0.8750
1964	78.0	0.9375	0.9375



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