

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

Station - 05426250 BARK RIVER NEAR ROME, WI
 2002 MAR 13 09:03:18

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

Number of peaks in record	=	17
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	17
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.400
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.	148.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	551.5

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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	2.4563	0.1235	-0.193
BULL.17B ESTIMATE	0.0	1.0000	2.4563	0.1235	-0.297

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	127.0	130.5	108.5	88.7	156.5
0.9900	138.8	141.7	123.2	100.2	168.1
0.9500	175.1	176.4	166.4	137.5	203.5
0.9000	197.0	197.5	191.1	161.0	225.1
0.8000	226.2	225.8	222.8	192.4	254.6
0.5000	290.0	288.6	290.0	257.9	327.0
0.2000	364.4	364.1	368.9	323.5	429.3
0.1000	407.5	409.1	417.0	357.6	495.9
0.0400	456.5	461.4	475.3	394.1	576.5
0.0200	489.7	497.7	517.7	418.0	633.7
0.0100	520.6	532.1	559.4	439.7	688.6
0.0050	549.6	565.0	601.4	459.7	741.6
0.0020	585.8	606.7	657.2	484.1	809.3
0.6667	256.0	(1.50-year flood)			
0.4292	305.1	(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
1984	256.0		1993	476.0	
1985	325.0		1994	249.0	
1986	388.0		1995	380.0	
1987	402.0		1996	323.0	
1988	222.0		1997	253.0	
1989	155.0		1998	276.0	
1990	241.0		1999	321.0	
1991	215.0		2000	344.0	
1992	220.0				

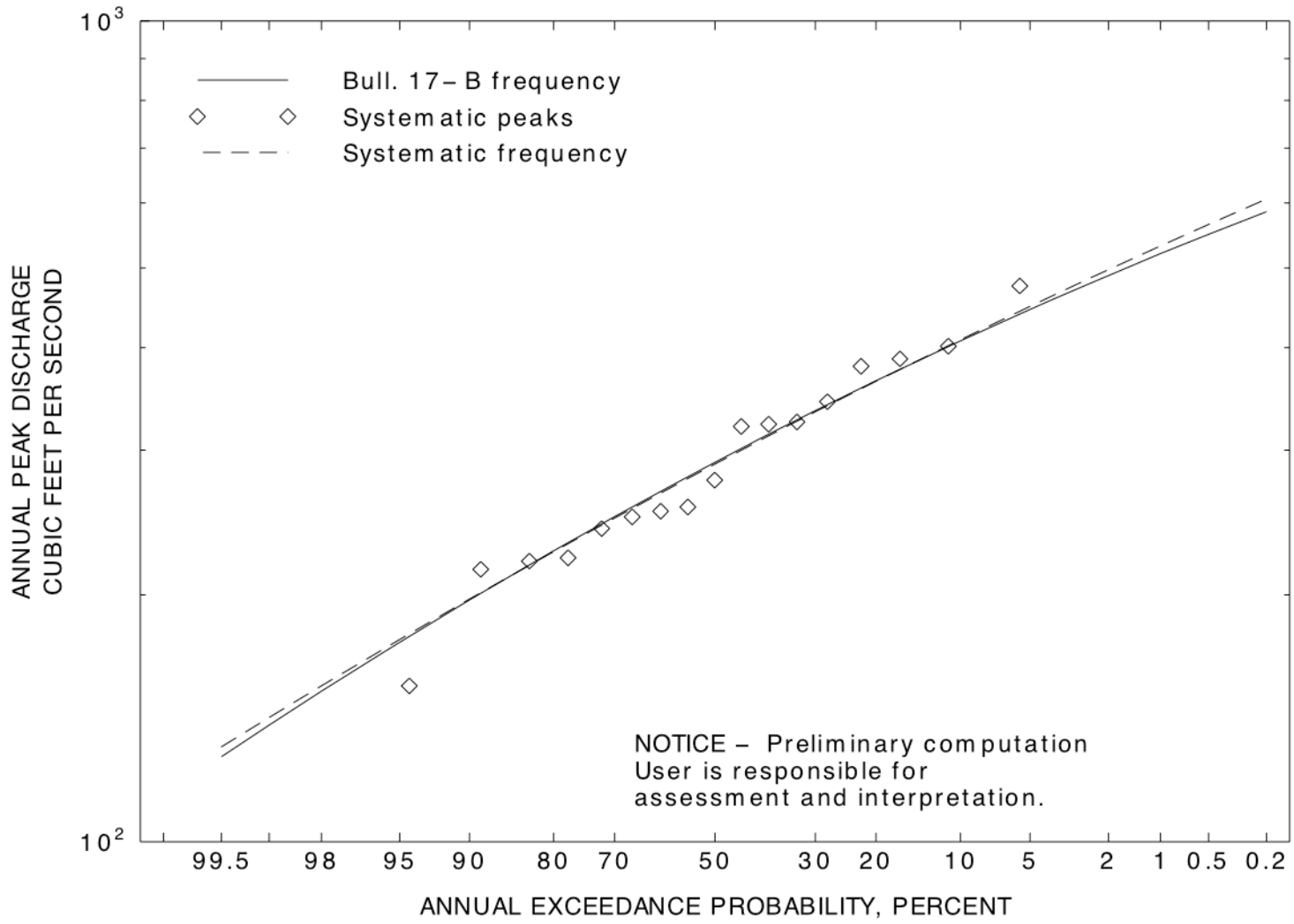
Explanation of peak discharge qualification codes

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
1993	476.0	0.0556	0.0556
1987	402.0	0.1111	0.1111
1986	388.0	0.1667	0.1667
1995	380.0	0.2222	0.2222
2000	344.0	0.2778	0.2778
1985	325.0	0.3333	0.3333
1996	323.0	0.3889	0.3889
1999	321.0	0.4444	0.4444
1998	276.0	0.5000	0.5000
1984	256.0	0.5556	0.5556
1997	253.0	0.6111	0.6111
1994	249.0	0.6667	0.6667
1990	241.0	0.7222	0.7222
1988	222.0	0.7778	0.7778
1992	220.0	0.8333	0.8333
1991	215.0	0.8889	0.8889
1989	155.0	0.9444	0.9444



NOTICE - Preliminary computation
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ANNUAL EXCEEDANCE PROBABILITY, PERCENT
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