

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

Station - 054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI  
 2002 MAR 13 09:03:23

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.	51.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	285.4

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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	2.0834	0.1611	-0.949
BULL.17B ESTIMATE	0.0	1.0000	2.0834	0.1611	-0.636

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	37.5	33.8	28.9	22.4	50.3
0.9900	43.2	40.0	35.6	27.3	56.4
0.9500	62.0	60.6	57.4	44.8	75.9
0.9000	74.0	73.7	70.7	56.7	88.1
0.8000	90.2	91.3	88.3	73.2	105.2
0.5000	126.0	128.4	126.0	108.3	147.7
0.2000	166.5	166.3	168.8	142.6	206.3
0.1000	188.7	184.8	193.3	159.5	242.3
0.0400	212.5	202.7	221.2	176.7	283.4
0.0200	227.7	213.0	239.8	187.3	310.8
0.0100	241.0	221.4	256.7	196.5	335.7
0.0050	252.9	228.2	272.5	204.5	358.4
0.0020	266.9	235.5	291.4	213.8	385.5
0.6667	106.9	( 1.50-year flood )			
0.4292	134.6	( 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	108.0		1993	210.0	
1985	129.0		1994	113.0	
1986	162.0		1995	147.0	
1987	118.0		1996	195.0	
1988	52.0		1997	124.0	
1989	157.0		1998	57.0	
1990	99.0		1999	170.0	
1991	110.0		2000	124.0	
1992	109.0				

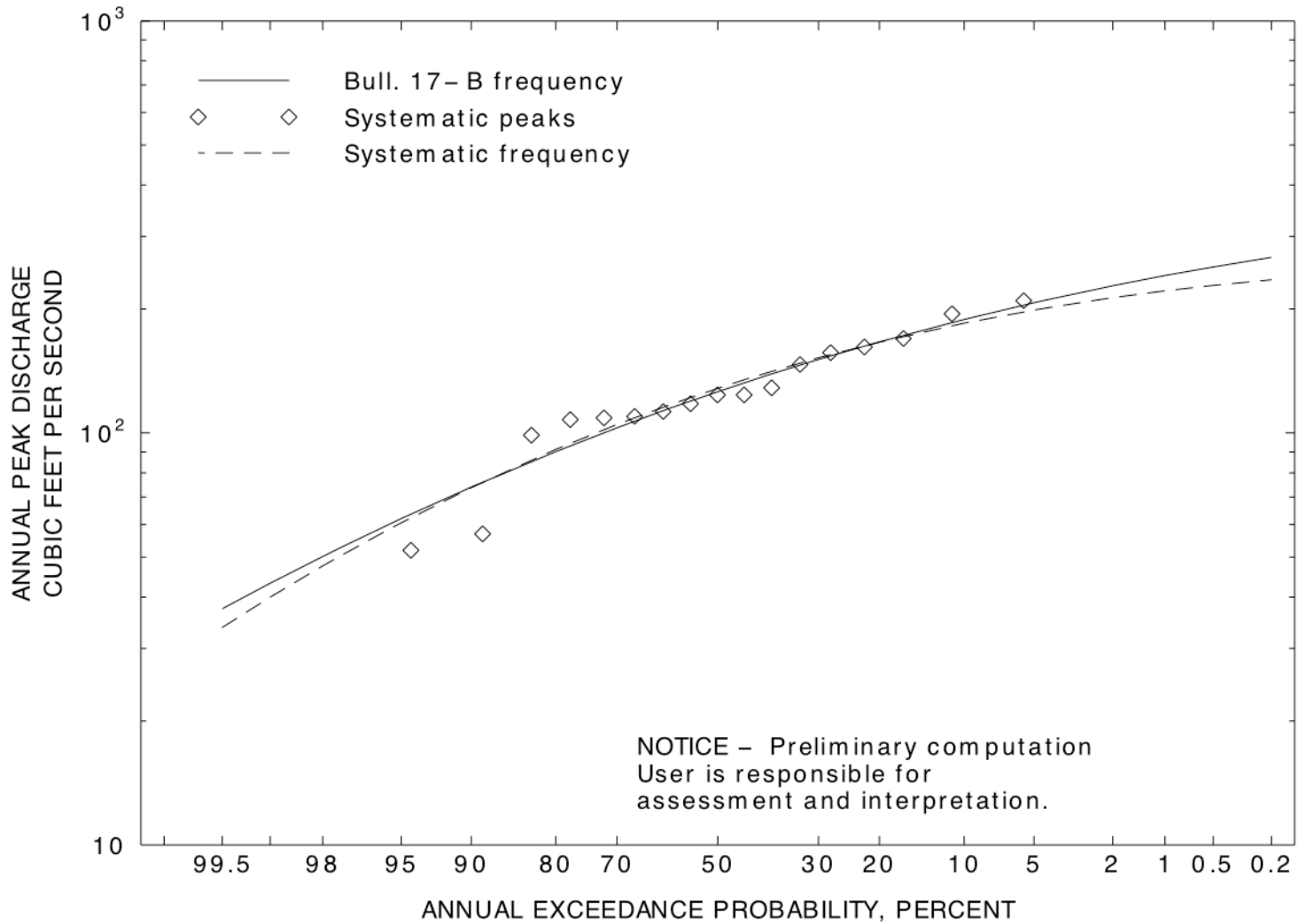
Explanation of peak discharge qualification codes

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	210.0	0.0556	0.0556
1996	195.0	0.1111	0.1111
1999	170.0	0.1667	0.1667
1986	162.0	0.2222	0.2222
1989	157.0	0.2778	0.2778
1995	147.0	0.3333	0.3333
1985	129.0	0.3889	0.3889
1997	124.0	0.4444	0.4444
2000	124.0	0.5000	0.5000
1987	118.0	0.5556	0.5556
1994	113.0	0.6111	0.6111
1991	110.0	0.6667	0.6667
1992	109.0	0.7222	0.7222
1984	108.0	0.7778	0.7778
1990	99.0	0.8333	0.8333
1998	57.0	0.8889	0.8889
1988	52.0	0.9444	0.9444



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