

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

Station - 05430403 FISHER CREEK TRIBUTARY AT JANESVILLE, WI  
2002 MAR 13 09:03:20

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	18
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	18
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.	154.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1151.3

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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	2.6247	0.1869	0.177
BULL.17B ESTIMATE	0.0	1.0000	2.6247	0.1869	-0.103

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	133.4	149.4	110.3	81.5	178.9
0.9900	149.9	163.8	129.5	95.5	196.8
0.9500	205.1	212.3	192.1	145.5	255.2
0.9000	241.7	244.9	232.2	180.5	293.9
0.8000	294.1	292.5	288.2	232.0	350.3
0.5000	424.6	416.2	424.6	357.0	505.6
0.2000	606.6	602.9	618.1	509.1	769.8
0.1000	728.0	737.1	754.9	599.5	971.7
0.0400	881.5	918.4	941.4	706.3	1250.0
0.0200	995.8	1062.0	1092.0	782.2	1471.0
0.0100	1110.0	1213.0	1255.0	855.6	1703.0
0.0050	1225.0	1371.0	1433.0	927.3	1945.0
0.0020	1378.0	1596.0	1695.0	1021.0	2284.0
0.6667	352.3	( 1.50-year flood )			
0.4292	458.5	( 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
1983	222.0		1992	770.0	
1984	410.0		1993	680.0	
1985	520.0		1994	430.0	
1986	320.0		1995	796.0	
1987	250.0		1996	411.0	
1988	640.0		1997	256.0	
1989	435.0		1998	419.0	
1990	830.0		1999	250.0	
1991	365.0		2000	279.0	

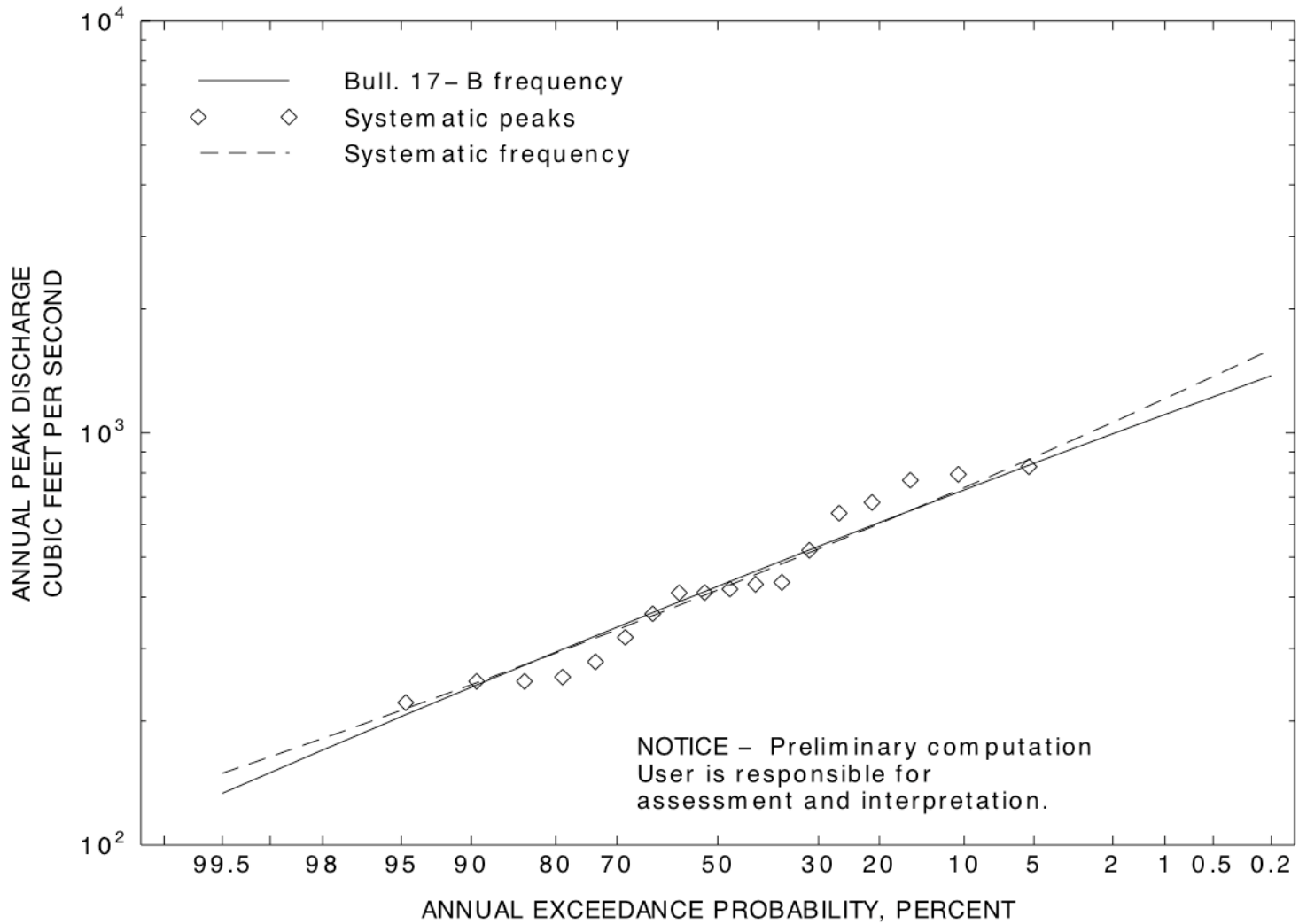
Explanation of peak discharge qualification codes

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
1990	830.0	0.0526	0.0526
1995	796.0	0.1053	0.1053
1992	770.0	0.1579	0.1579
1993	680.0	0.2105	0.2105
1988	640.0	0.2632	0.2632
1985	520.0	0.3158	0.3158
1989	435.0	0.3684	0.3684
1994	430.0	0.4211	0.4211
1998	419.0	0.4737	0.4737
1996	411.0	0.5263	0.5263
1984	410.0	0.5789	0.5789
1991	365.0	0.6316	0.6316
1986	320.0	0.6842	0.6842
2000	279.0	0.7368	0.7368
1997	256.0	0.7895	0.7895
1987	250.0	0.8421	0.8421
1999	250.0	0.8947	0.8947
1983	222.0	0.9474	0.9474



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