

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

Station - 05396300 WISCONSIN RIVER TRIBUTARY AT WAUSAU, WI
 2002 MAR 13 09:03:04

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	=	-0.262
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.	50.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1153.6

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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	2.3820	0.2945	0.121
BULL.17B ESTIMATE	0.0	1.0000	2.3820	0.2945	-0.068

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	40.2	45.4	29.5	18.1	64.3
0.9900	48.1	52.8	37.9	23.1	74.4
0.9500	78.0	80.9	70.0	44.5	110.9
0.9000	100.6	102.0	94.1	62.4	137.9
0.8000	136.5	135.7	132.0	92.6	181.2
0.5000	242.8	237.7	242.8	183.1	322.5
0.2000	427.4	424.6	441.1	321.9	630.7
0.1000	571.8	579.5	608.3	417.6	918.5
0.0400	777.4	812.1	870.3	542.8	1382.0
0.0200	946.4	1013.0	1110.0	639.4	1804.0
0.0100	1128.0	1239.0	1396.0	738.7	2292.0
0.0050	1324.0	1493.0	1740.0	841.3	2853.0
0.0020	1605.0	1875.0	2308.0	982.7	3719.0
0.6667	181.1	(1.50-year flood)			
0.4292	274.1	(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
1983	117.0		1992	410.0	
1984	480.0		1993	116.0	
1985	733.0		1994	283.0	
1986	335.0		1996	89.0	
1987	125.0		1997	308.0	
1988	135.0		1998	142.0	
1989	111.0		1999	317.0	
1990	740.0		2000	322.0	
1991	305.0				

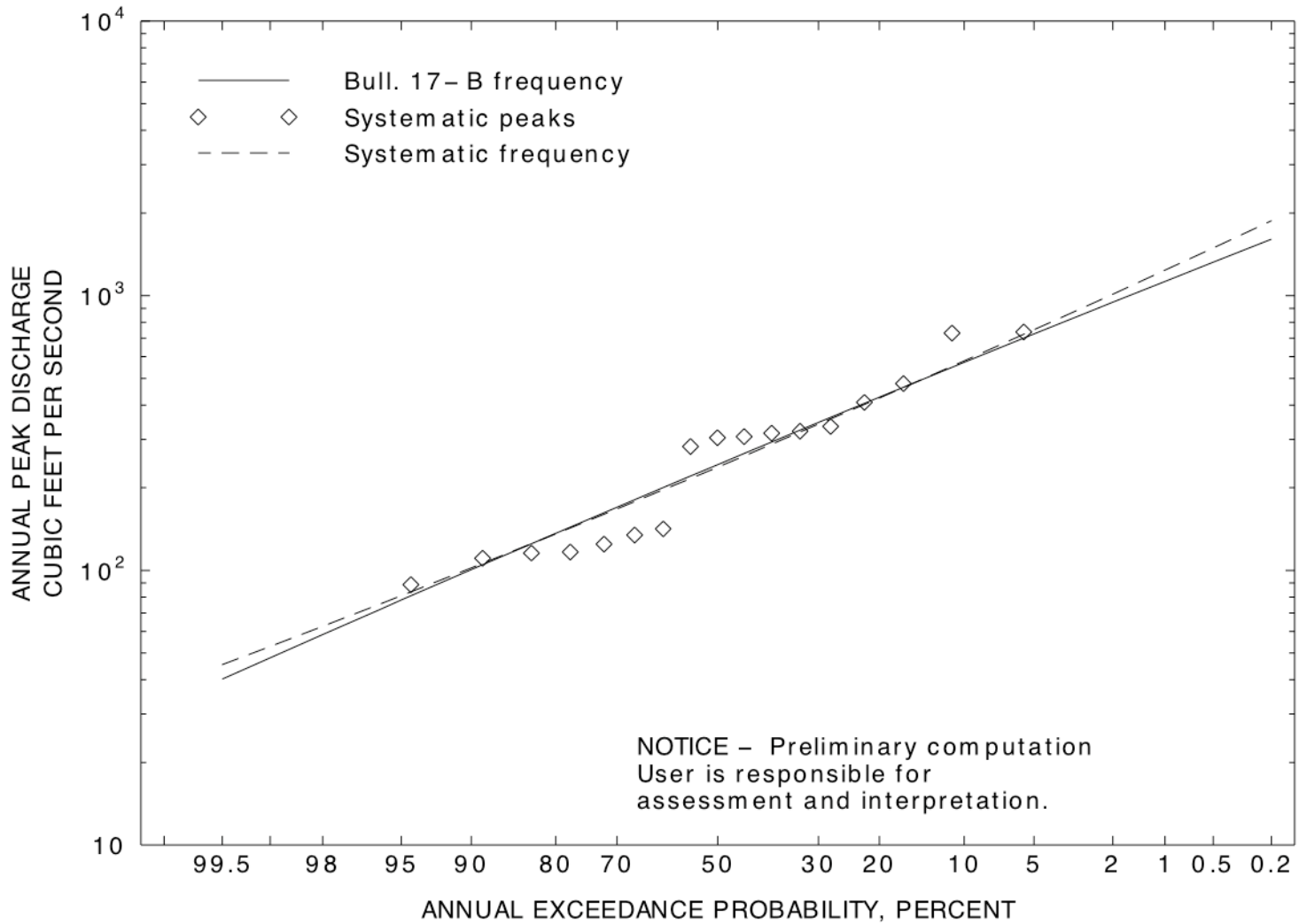
Explanation of peak discharge qualification codes

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	740.0	0.0556	0.0556
1985	733.0	0.1111	0.1111
1984	480.0	0.1667	0.1667
1992	410.0	0.2222	0.2222
1986	335.0	0.2778	0.2778
2000	322.0	0.3333	0.3333
1999	317.0	0.3889	0.3889
1997	308.0	0.4444	0.4444
1991	305.0	0.5000	0.5000
1994	283.0	0.5556	0.5556
1998	142.0	0.6111	0.6111
1988	135.0	0.6667	0.6667
1987	125.0	0.7222	0.7222
1983	117.0	0.7778	0.7778
1993	116.0	0.8333	0.8333
1989	111.0	0.8889	0.8889
1996	89.0	0.9444	0.9444



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