

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

Station - 05403630 HULBERT CREEK NEAR WISCONSIN DELLS, WI
 2002 MAR 13 09:03:09

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

Number of peaks in record	=	22
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	22
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.385
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	421.1
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		23.5

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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	1.9976	0.2580	1.112
BULL.17B ESTIMATE	0.0	1.0000	1.9976	0.2580	0.269

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	25.0	39.1	21.6	14.8	35.0
0.9900	28.1	40.6	25.0	17.2	38.6
0.9500	39.2	46.6	37.0	26.4	51.3
0.9000	47.3	51.6	45.6	33.5	60.4
0.8000	59.9	60.1	58.8	44.8	74.7
0.5000	96.8	89.3	96.8	77.9	119.9
0.2000	162.4	154.7	166.3	130.4	216.5
0.1000	216.2	220.6	226.9	168.7	308.3
0.0400	296.7	339.9	325.0	221.7	461.5
0.0200	366.4	463.3	418.3	264.9	606.6
0.0100	445.0	625.2	533.4	311.4	781.7
0.0050	533.6	837.1	677.2	361.8	991.9
0.0020	668.1	1220.0	926.0	435.2	1334.0
0.6667	75.5	(1.50-year flood)			
0.4292	107.5	(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
1972	93.0		1983	72.0	
1973	93.0		1984	125.0	
1974	90.0		1985	200.0	
1975	112.0		1986	110.0	
1976	81.0		1987	52.0	
1977	33.0		1988	52.0	
1978	117.0		1989	78.0	
1979	62.0		1990	88.0	
1980	470.0		1991	86.0	
1981	100.0		1992	380.0	
1982	80.0		1993	116.0	

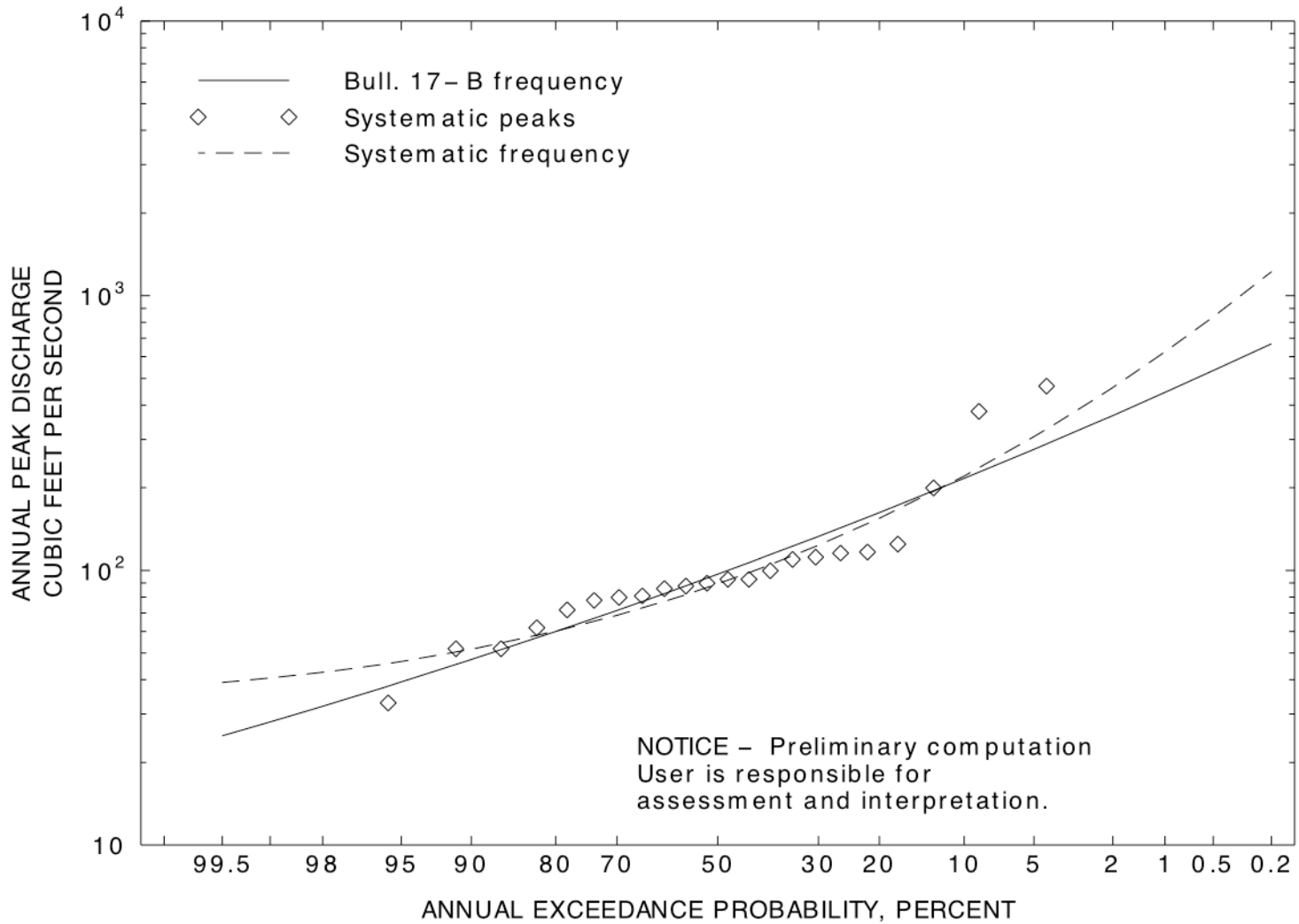
Explanation of peak discharge qualification codes

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
1980	470.0	0.0435	0.0435
1992	380.0	0.0870	0.0870
1985	200.0	0.1304	0.1304
1984	125.0	0.1739	0.1739
1978	117.0	0.2174	0.2174
1993	116.0	0.2609	0.2609
1975	112.0	0.3043	0.3043
1986	110.0	0.3478	0.3478
1981	100.0	0.3913	0.3913
1972	93.0	0.4348	0.4348
1973	93.0	0.4783	0.4783
1974	90.0	0.5217	0.5217
1990	88.0	0.5652	0.5652
1991	86.0	0.6087	0.6087
1976	81.0	0.6522	0.6522
1982	80.0	0.6957	0.6957
1989	78.0	0.7391	0.7391
1983	72.0	0.7826	0.7826
1979	62.0	0.8261	0.8261
1987	52.0	0.8696	0.8696
1988	52.0	0.9130	0.9130
1977	33.0	0.9565	0.9565



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