

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

Station - 05378200 EAGLE CREEK NEAR FOUNTAIN CITY, WI
 2002 MAR 13 09:02:57

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

Number of peaks in record	=	31
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	31
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.391
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	600.0
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. *****

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	10	600.0	
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	4554.0	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		327.2	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	10	600.0	7
WCF002J-CALCS COMPLETED. RETURN CODE = 2			

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	600.0	0.6774	2.9652	0.2685	1.057
BULL.17B ESTIMATE	600.0	0.6774	2.9652	0.2685	0.342

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
0.5000	891.1	829.4	891.1	737.8	1073.0
0.2000	1533.0	1468.0	1560.0	1262.0	1953.0
0.1000	2078.0	2114.0	2154.0	1665.0	2800.0
0.0400	2919.0	3290.0	3126.0	2245.0	4232.0
0.0200	3668.0	4511.0	4053.0	2733.0	5609.0
0.0100	4532.0	6117.0	5193.0	3274.0	7291.0
0.0050	5527.0	8225.0	6611.0	3875.0	9338.0
0.0020	7076.0	12040.0	9032.0	4772.0	12720.0
0.6667	688.8	(1.50-year flood)			
0.4292	993.1	(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
1961	930.0		1977	225.0	
1962	790.0		1978	6000.0	
1963	360.0		1979	1900.0	
1964	730.0		1980	2500.0	
1965	1100.0		1982	1480.0	
1966	870.0		1983	1010.0	
1967	390.0		1984	1110.0	
1968	2460.0		1985	600.0	L
1969	230.0		1986	1460.0	
1970	150.0	L	1987	1910.0	
1971	250.0		1988	900.0	
1972	520.0		1989	1560.0	
1973	660.0		1990	680.0	
1974	400.0		1991	770.0	
1975	850.0		1992	960.0	
1976	490.0				

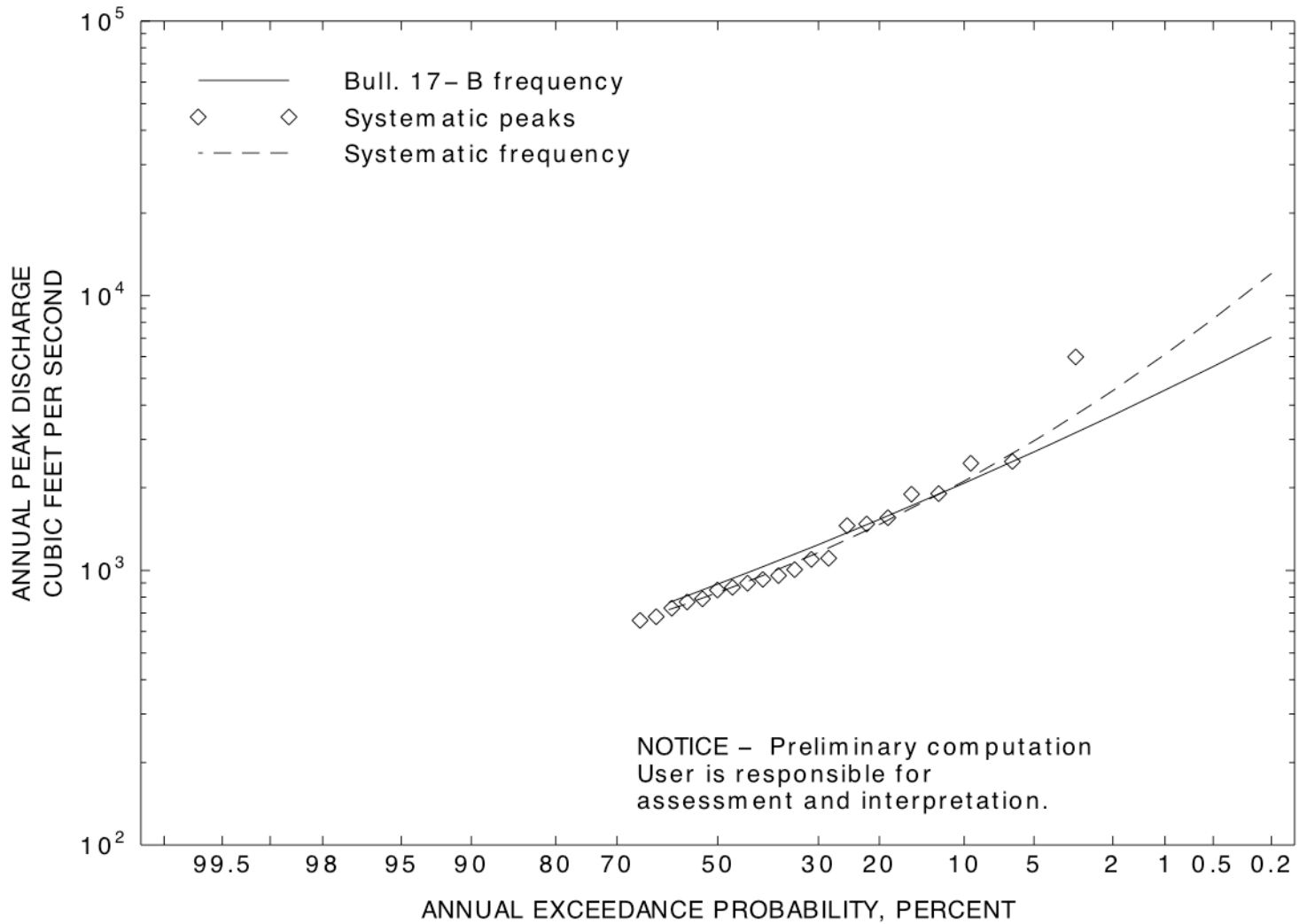
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE 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
1978	6000.0	0.0312	0.0312
1980	2500.0	0.0625	0.0625
1968	2460.0	0.0938	0.0938
1987	1910.0	0.1250	0.1250
1979	1900.0	0.1562	0.1562
1989	1560.0	0.1875	0.1875
1982	1480.0	0.2188	0.2188
1986	1460.0	0.2500	0.2500
1984	1110.0	0.2812	0.2812
1965	1100.0	0.3125	0.3125
1983	1010.0	0.3438	0.3438
1992	960.0	0.3750	0.3750
1961	930.0	0.4062	0.4062
1988	900.0	0.4375	0.4375
1966	870.0	0.4688	0.4688
1975	850.0	0.5000	0.5000
1962	790.0	0.5312	0.5312
1991	770.0	0.5625	0.5625
1964	730.0	0.5938	0.5938
1990	680.0	0.6250	0.6250
1973	660.0	0.6562	0.6562
1985	600.0	--	--
1972	520.0	--	--
1976	490.0	--	--
1974	400.0	--	--
1967	390.0	--	--
1963	360.0	--	--
1971	250.0	--	--
1969	230.0	--	--
1977	225.0	--	--
1970	150.0	--	--



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