

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

Station - 05414200 BEAR BRANCH NEAR PLATTEVILLE, WI
 2002 MAR 13 09:03:16

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

Number of peaks in record	=	36
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	36
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	=	290.0
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.	14	290.0	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		208.1	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	14	290.0	9
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1544.1	
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	290.0	0.6111	2.5633	0.3016	-0.543
BULL.17B ESTIMATE	290.0	0.6111	2.5633	0.3016	-0.489

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	387.1	389.5	387.1	319.3	471.3
0.2000	663.1	663.3	671.4	540.1	854.1
0.1000	852.4	847.3	872.0	679.9	1144.0
0.0400	1090.0	1074.0	1132.0	847.0	1531.0
0.0200	1263.0	1236.0	1328.0	964.3	1826.0
0.0100	1430.0	1390.0	1523.0	1076.0	2122.0
0.0050	1593.0	1539.0	1719.0	1182.0	2419.0
0.0020	1802.0	1726.0	1980.0	1315.0	2809.0
0.6667	1.50-year flood below base				
0.4292	438.2 (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
1958	110.0		1976	320.0	
1959	840.0		1977	910.0	
1960	780.0		1978	910.0	
1961	135.0		1979	880.0	
1962	495.0		1980	530.0	
1963	275.0		1981	350.0	
1964	120.0		1982	230.0	
1965	330.0		1983	190.0	
1966	170.0		1984	495.0	
1967	610.0		1985	240.0	
1968	250.0		1986	200.0	
1969	595.0		1987	200.0	L
1970	375.0		1988	160.0	L
1971	150.0		1989	760.0	
1972	560.0		1990	640.0	
1973	325.0		1991	305.0	
1974	1330.0		1992	290.0	L
1975	710.0		1993	475.0	

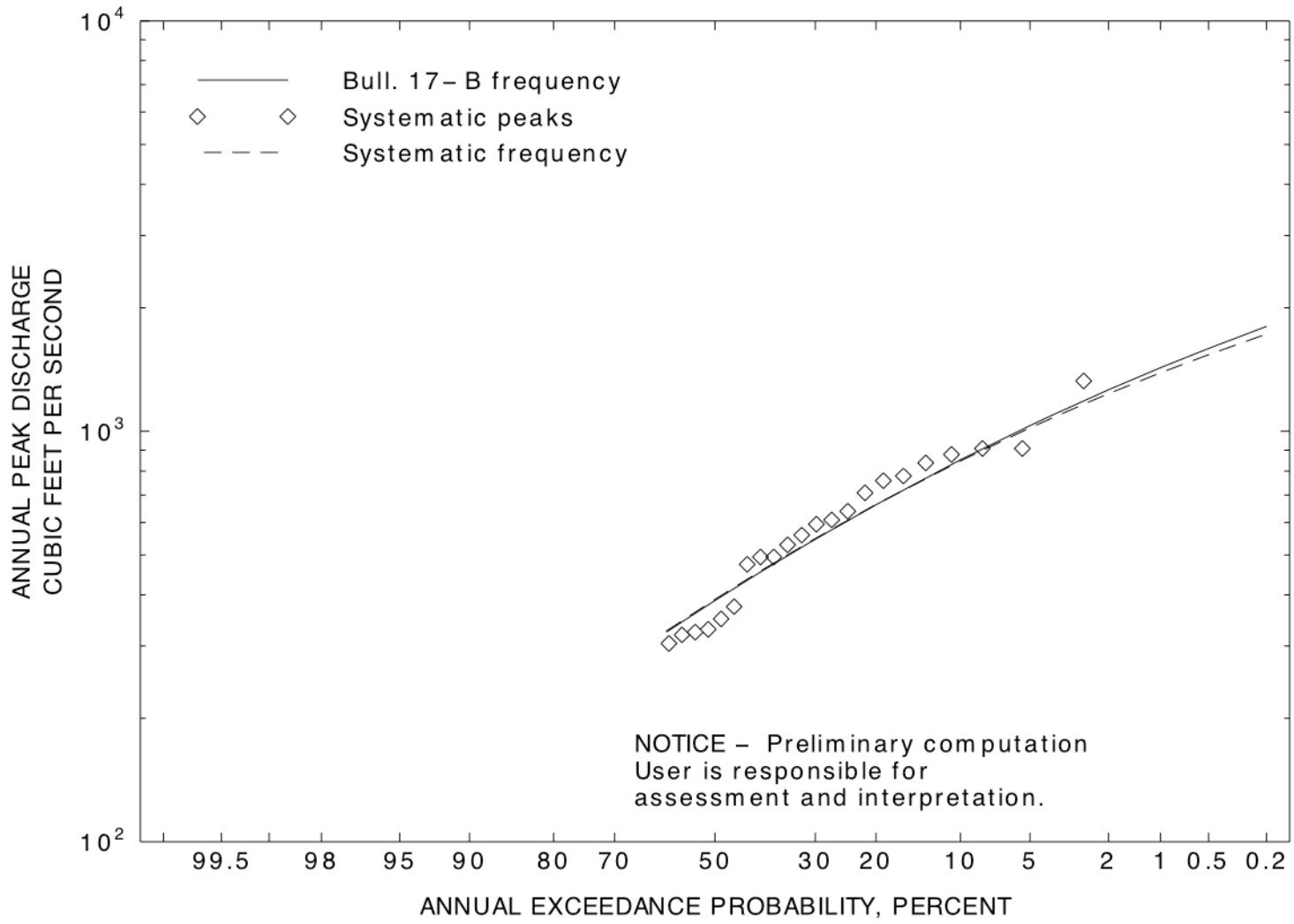
Explanation of peak discharge qualification codes

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
1974	1330.0	0.0270	0.0270
1977	910.0	0.0541	0.0541
1978	910.0	0.0811	0.0811
1979	880.0	0.1081	0.1081
1959	840.0	0.1351	0.1351
1960	780.0	0.1622	0.1622
1989	760.0	0.1892	0.1892
1975	710.0	0.2162	0.2162
1990	640.0	0.2432	0.2432
1967	610.0	0.2703	0.2703
1969	595.0	0.2973	0.2973
1972	560.0	0.3243	0.3243
1980	530.0	0.3514	0.3514
1962	495.0	0.3784	0.3784
1984	495.0	0.4054	0.4054
1993	475.0	0.4324	0.4324
1970	375.0	0.4595	0.4595
1981	350.0	0.4865	0.4865
1965	330.0	0.5135	0.5135
1973	325.0	0.5405	0.5405
1976	320.0	0.5676	0.5676
1991	305.0	0.5946	0.5946
1992	290.0	--	--
1963	275.0	--	--
1968	250.0	--	--
1985	240.0	--	--
1982	230.0	--	--
1986	200.0	--	--
1987	200.0	--	--
1983	190.0	--	--
1966	170.0	--	--
1988	160.0	--	--
1971	150.0	--	--
1961	135.0	--	--
1964	120.0	--	--
1958	110.0	--	--



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