

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

Station - 05403550 ONEMILE CREEK NEAR MAUSTON, 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	=	36
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	36
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.386
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.	60.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	4730.2

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 2002 MAR 13 09:03:09

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.7277	0.3589	-0.129
BULL.17B ESTIMATE	0.0	1.0000	2.7277	0.3589	-0.214

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	53.9	57.5	44.8	29.1	82.9
0.9900	68.7	72.3	59.6	39.2	102.1
0.9500	130.7	133.2	122.6	85.4	178.7
0.9000	182.1	183.3	175.1	126.7	239.9
0.8000	269.1	268.0	263.9	199.8	343.1
0.5000	550.1	543.7	550.1	437.1	694.0
0.2000	1079.0	1076.0	1097.0	845.2	1457.0
0.1000	1509.0	1522.0	1558.0	1149.0	2153.0
0.0400	2132.0	2187.0	2255.0	1564.0	3249.0
0.0200	2649.0	2753.0	2860.0	1892.0	4218.0
0.0100	3205.0	3378.0	3542.0	2234.0	5313.0
0.0050	3803.0	4063.0	4309.0	2589.0	6540.0
0.0020	4657.0	5069.0	5472.0	3083.0	8373.0
0.6667	383.5	(1.50-year flood)			
0.4292	637.7	(2.33-year flood)			

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2002 MAR 13 09:03:09

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	175.0		1976	205.0	
1959	280.0		1977	120.0	
1960	940.0		1978	890.0	
1961	1300.0		1979	960.0	
1962	1550.0		1980	1600.0	
1963	695.0		1981	1260.0	
1964	115.0		1982	400.0	
1965	650.0		1983	290.0	
1966	1560.0		1984	2800.0	
1967	560.0		1985	740.0	
1968	300.0		1986	900.0	
1969	320.0		1987	420.0	
1970	180.0		1988	105.0	
1971	360.0		1989	500.0	
1972	650.0		1990	500.0	
1973	770.0		1991	370.0	
1974	510.0		1992	2250.0	
1975	430.0		1993	650.0	

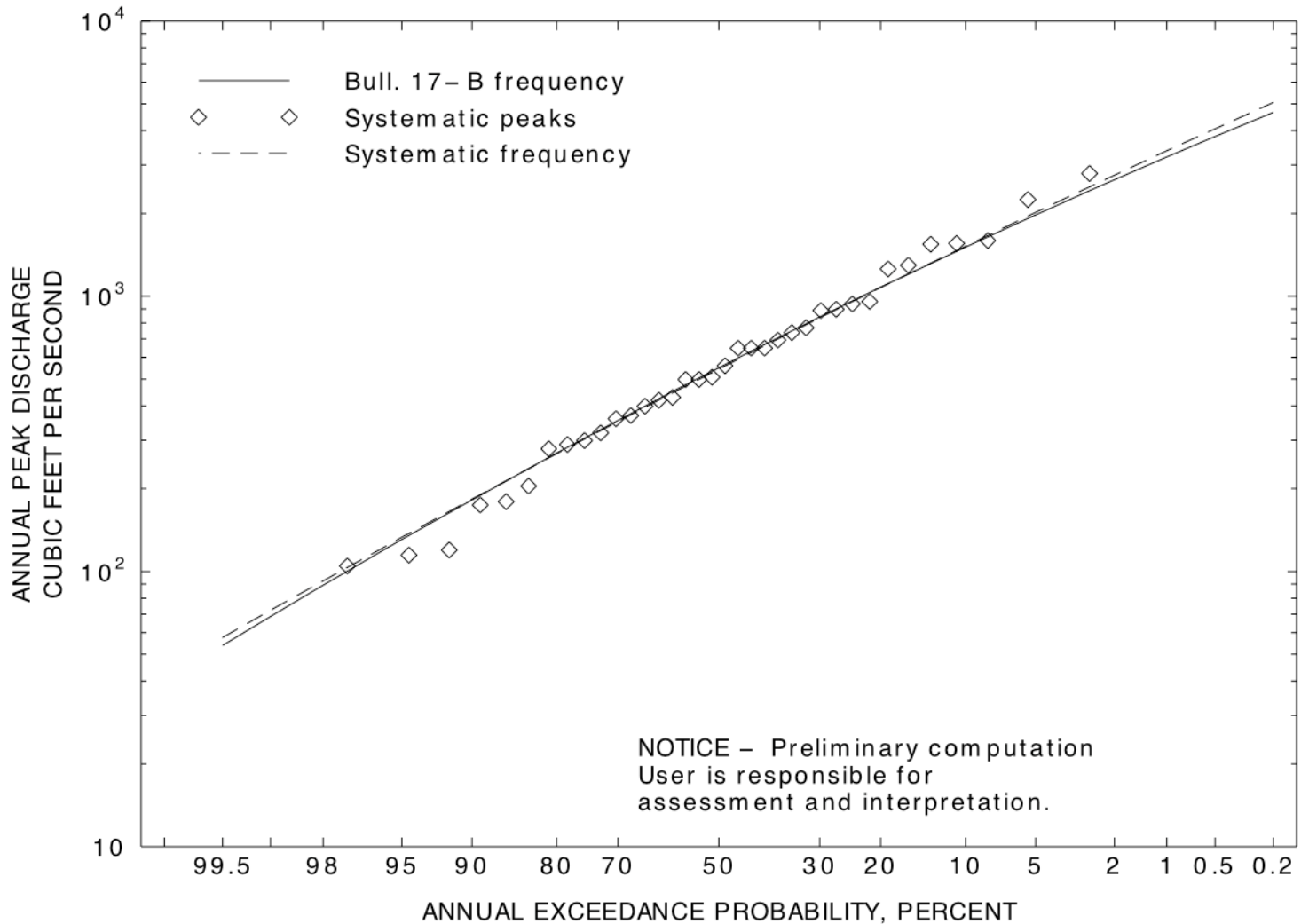
Explanation of peak discharge qualification codes

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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2002 MAR 13 09:03:09

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1984	2800.0	0.0270	0.0270
1992	2250.0	0.0541	0.0541
1980	1600.0	0.0811	0.0811
1966	1560.0	0.1081	0.1081
1962	1550.0	0.1351	0.1351
1961	1300.0	0.1622	0.1622
1981	1260.0	0.1892	0.1892
1979	960.0	0.2162	0.2162
1960	940.0	0.2432	0.2432
1986	900.0	0.2703	0.2703
1978	890.0	0.2973	0.2973
1973	770.0	0.3243	0.3243
1985	740.0	0.3514	0.3514
1963	695.0	0.3784	0.3784
1965	650.0	0.4054	0.4054
1972	650.0	0.4324	0.4324
1993	650.0	0.4595	0.4595
1967	560.0	0.4865	0.4865
1974	510.0	0.5135	0.5135
1989	500.0	0.5405	0.5405
1990	500.0	0.5676	0.5676
1975	430.0	0.5946	0.5946
1987	420.0	0.6216	0.6216
1982	400.0	0.6486	0.6486
1991	370.0	0.6757	0.6757
1971	360.0	0.7027	0.7027
1969	320.0	0.7297	0.7297
1968	300.0	0.7568	0.7568
1983	290.0	0.7838	0.7838
1959	280.0	0.8108	0.8108
1976	205.0	0.8378	0.8378
1970	180.0	0.8649	0.8649
1958	175.0	0.8919	0.8919
1977	120.0	0.9189	0.9189
1964	115.0	0.9459	0.9459
1988	105.0	0.9730	0.9730



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