

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

Station - 05407200 CROOKED CREEK NEAR BOSCOBEL, WI
 2002 MAR 13 09:03:11

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

Number of peaks in record	=	42
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	42
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.399
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	130.0
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.	11	130.0	
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2811.0	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		105.2	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	11	130.0	10
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	130.0	0.7381	2.6040	0.3357	0.267
BULL.17B ESTIMATE	130.0	0.7381	2.6040	0.3357	0.055

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	399.0	388.3	399.0	326.7	487.0
0.2000	768.4	760.9	779.8	621.8	992.5
0.1000	1087.0	1103.0	1119.0	855.4	1478.0
0.0400	1578.0	1665.0	1664.0	1194.0	2289.0
0.0200	2011.0	2190.0	2167.0	1478.0	3052.0
0.0100	2503.0	2819.0	2767.0	1791.0	3965.0
0.0050	3062.0	3568.0	3482.0	2134.0	5049.0
0.0020	3914.0	4778.0	4640.0	2639.0	6782.0
0.6667	286.5	(1.50-year flood)			
0.4292	457.8	(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
1959	700.0		1980	790.0	
1960	2130.0		1981	500.0	
1961	720.0		1982	530.0	
1962	220.0		1983	340.0	
1963	460.0		1984	130.0	
1964	2460.0		1985	205.0	
1965	1000.0		1986	100.0	L
1966	550.0		1987	100.0	
1967	580.0		1988	75.0	L
1968	600.0		1989	400.0	
1969	100.0		1990	620.0	
1970	70.0	L	1991	260.0	
1971	160.0		1992	720.0	
1972	470.0		1993	590.0	
1973	330.0		1994	115.0	
1974	360.0		1995	130.0	L
1975	490.0		1996	130.0	
1976	520.0		1997	370.0	
1977	340.0		1998	440.0	
1978	1700.0		1999	80.0	
1979	100.0		2000	1440.0	

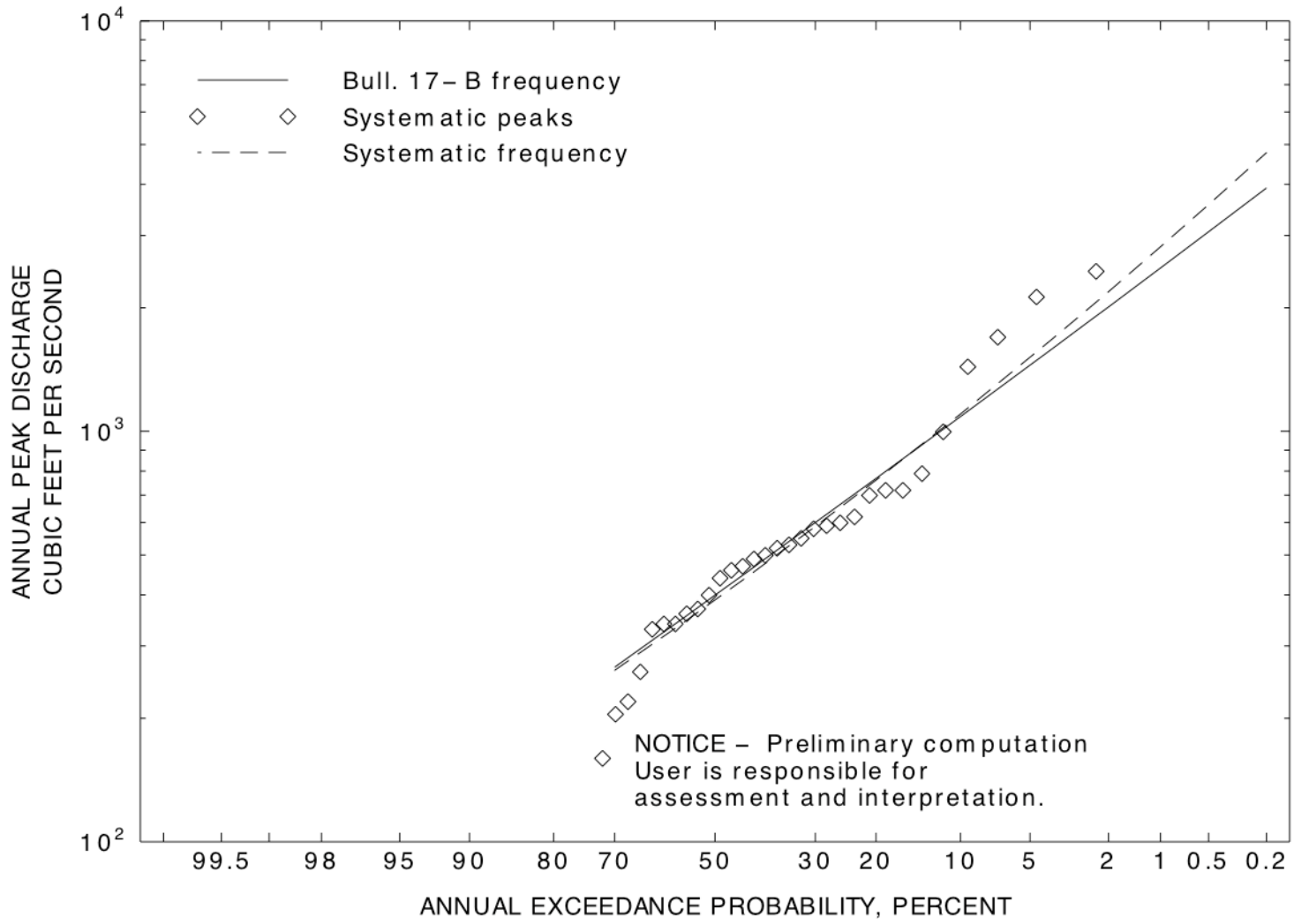
Explanation of peak discharge qualification codes

PEAKFQ	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
1964	2460.0	0.0233	0.0233
1960	2130.0	0.0465	0.0465
1978	1700.0	0.0698	0.0698
2000	1440.0	0.0930	0.0930
1965	1000.0	0.1163	0.1163
1980	790.0	0.1395	0.1395
1961	720.0	0.1628	0.1628
1992	720.0	0.1860	0.1860
1959	700.0	0.2093	0.2093
1990	620.0	0.2326	0.2326
1968	600.0	0.2558	0.2558
1993	590.0	0.2791	0.2791
1967	580.0	0.3023	0.3023
1966	550.0	0.3256	0.3256
1982	530.0	0.3488	0.3488
1976	520.0	0.3721	0.3721
1981	500.0	0.3953	0.3953
1975	490.0	0.4186	0.4186
1972	470.0	0.4419	0.4419
1963	460.0	0.4651	0.4651
1998	440.0	0.4884	0.4884
1989	400.0	0.5116	0.5116
1997	370.0	0.5349	0.5349
1974	360.0	0.5581	0.5581
1977	340.0	0.5814	0.5814
1983	340.0	0.6047	0.6047
1973	330.0	0.6279	0.6279
1991	260.0	0.6512	0.6512
1962	220.0	0.6744	0.6744
1985	205.0	0.6977	0.6977
1971	160.0	0.7209	0.7209
1984	130.0	--	--
1995	130.0	--	--
1996	130.0	--	--
1994	115.0	--	--
1969	100.0	--	--
1979	100.0	--	--
1986	100.0	--	--
1987	100.0	--	--
1999	80.0	--	--
1988	75.0	--	--
1970	70.0	--	--



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