

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

Station - 05357390 WEBER CREEK NEAR MERCER, WI
 2002 MAR 13 09:02:50

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

Number of peaks in record	=	24
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	24
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.139
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	36.0
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.	1	36.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		24.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		358.1

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	36.0	0.9583	1.9558	0.2450	0.078
BULL.17B ESTIMATE	36.0	0.9583	1.9558	0.2450	-0.011

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
0.9500	36.0	36.2	36.0	25.0	46.2
0.9000	43.8	44.0	42.3	32.0	54.8
0.8000	56.2	56.1	55.2	43.3	68.7
0.5000	90.4	89.7	90.4	74.4	109.9
0.2000	145.3	144.9	148.0	118.8	188.5
0.1000	186.0	187.0	193.0	148.6	254.9
0.0400	242.0	246.2	258.8	186.8	354.6
0.0200	286.8	294.6	315.3	215.9	440.2
0.0100	334.1	346.7	379.1	245.6	535.2
0.0050	384.1	402.7	451.6	275.9	640.6
0.0020	454.7	483.5	564.0	317.5	796.9
0.6667	70.9	(1.50-year flood)			
0.4292	100.0	(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
1970	234.0		1982	140.0	
1971	134.0		1983	70.0	
1972	270.0		1984	43.0	
1973	65.0		1985	95.0	
1974	122.0		1986	123.0	
1975	112.0		1987	36.0	L
1976	140.0		1988	56.0	
1977	43.0		1989	55.0	
1978	185.0		1990	43.0	
1979	42.0		1991	79.0	
1980	76.0		1992	152.0	
1981	85.0		1993	115.0	

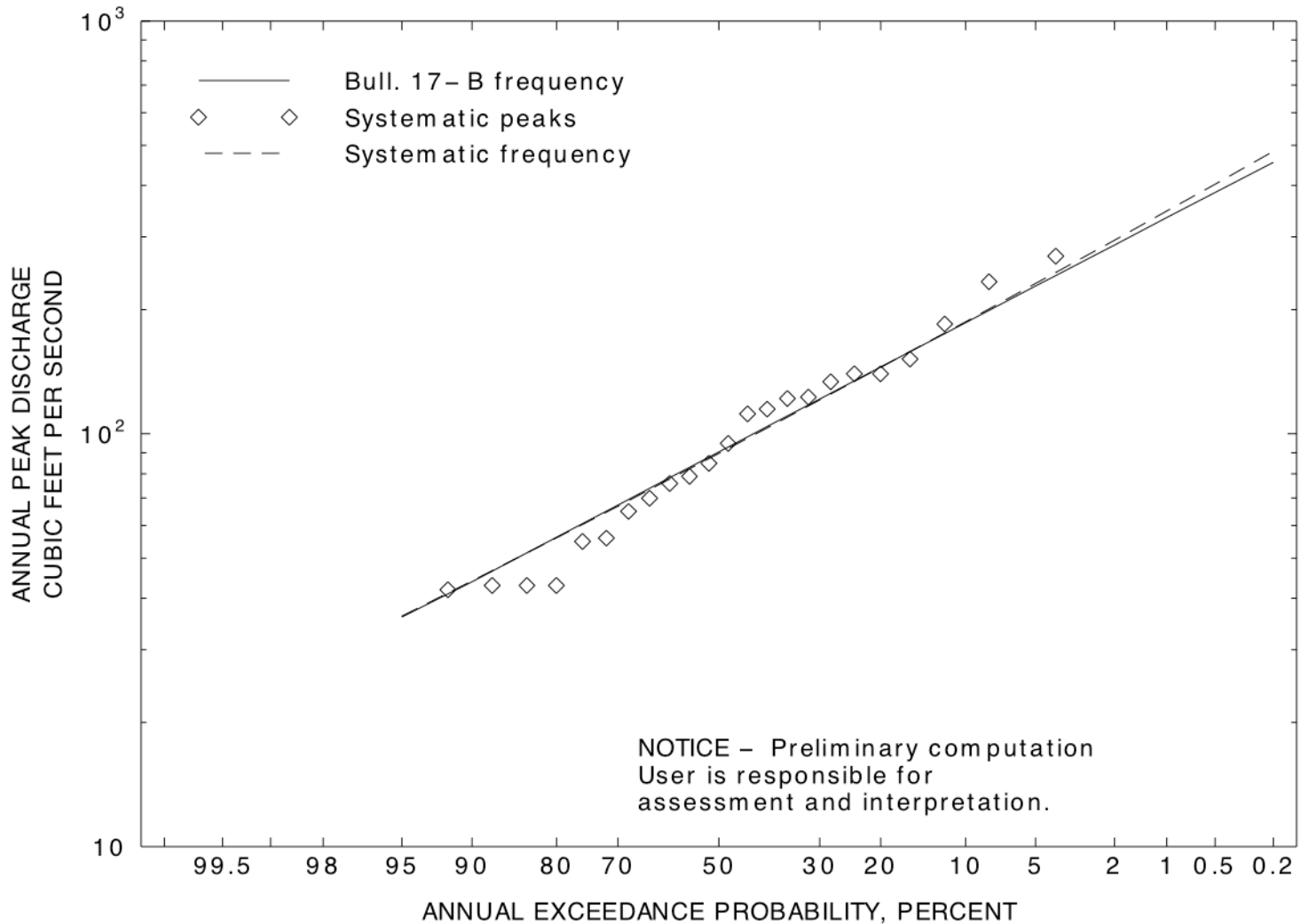
Explanation of peak discharge qualification codes

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
1972	270.0	0.0400	0.0400
1970	234.0	0.0800	0.0800
1978	185.0	0.1200	0.1200
1992	152.0	0.1600	0.1600
1976	140.0	0.2000	0.2000
1982	140.0	0.2400	0.2400
1971	134.0	0.2800	0.2800
1986	123.0	0.3200	0.3200
1974	122.0	0.3600	0.3600
1993	115.0	0.4000	0.4000
1975	112.0	0.4400	0.4400
1985	95.0	0.4800	0.4800
1981	85.0	0.5200	0.5200
1991	79.0	0.5600	0.5600
1980	76.0	0.6000	0.6000
1983	70.0	0.6400	0.6400
1973	65.0	0.6800	0.6800
1988	56.0	0.7200	0.7200
1989	55.0	0.7600	0.7600
1977	43.0	0.8000	0.8000
1984	43.0	0.8400	0.8400
1990	43.0	0.8800	0.8800
1979	42.0	0.9200	0.9200
1987	36.0	--	--



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ANNUAL EXCEEDANCE PROBABILITY, PERCENT
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