

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

Station - 04029700 BOOMER CREEK NEAR SAXON, WI
 2002 MAR 13 09:02:14

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

Number of peaks in record	=	21
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	21
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.131
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	21.9
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		533.3

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.0829	0.3080	-0.883
BULL.17B ESTIMATE	21.9	0.9524	2.1052	0.2629	-0.260

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	--	11.0	--	--	--
0.9900	--	15.0	--	--	--
0.9500	45.1	32.5	41.4	29.0	60.4
0.9000	57.8	46.9	54.9	39.8	74.8
0.8000	77.2	70.1	75.3	57.2	97.1
0.5000	130.8	134.2	130.8	104.6	164.1
0.2000	213.4	221.9	217.9	169.6	289.4
0.1000	271.6	273.7	282.7	210.8	390.8
0.0400	347.6	330.0	372.9	261.1	535.6
0.0200	405.4	365.6	446.4	297.4	653.5
0.0100	463.6	396.3	525.7	332.9	778.8
0.0050	522.6	422.9	611.6	367.9	911.4
0.0020	601.9	452.8	736.6	413.5	1098.0
0.6667	100.4	(1.50-year flood)			
0.4292	145.8	(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
1958	48.0		1969	270.0	
1959	78.0		1970	134.0	
1960	349.0		1971	180.0	
1961	130.0		1972	205.0	
1962	120.0		1973	124.0	
1963	19.0		1977	48.0	
1964	300.0		1978	120.0	
1965	170.0		1979	195.0	
1966	75.0		1980	105.0	
1967	53.0		1981	180.0	
1968	200.0				

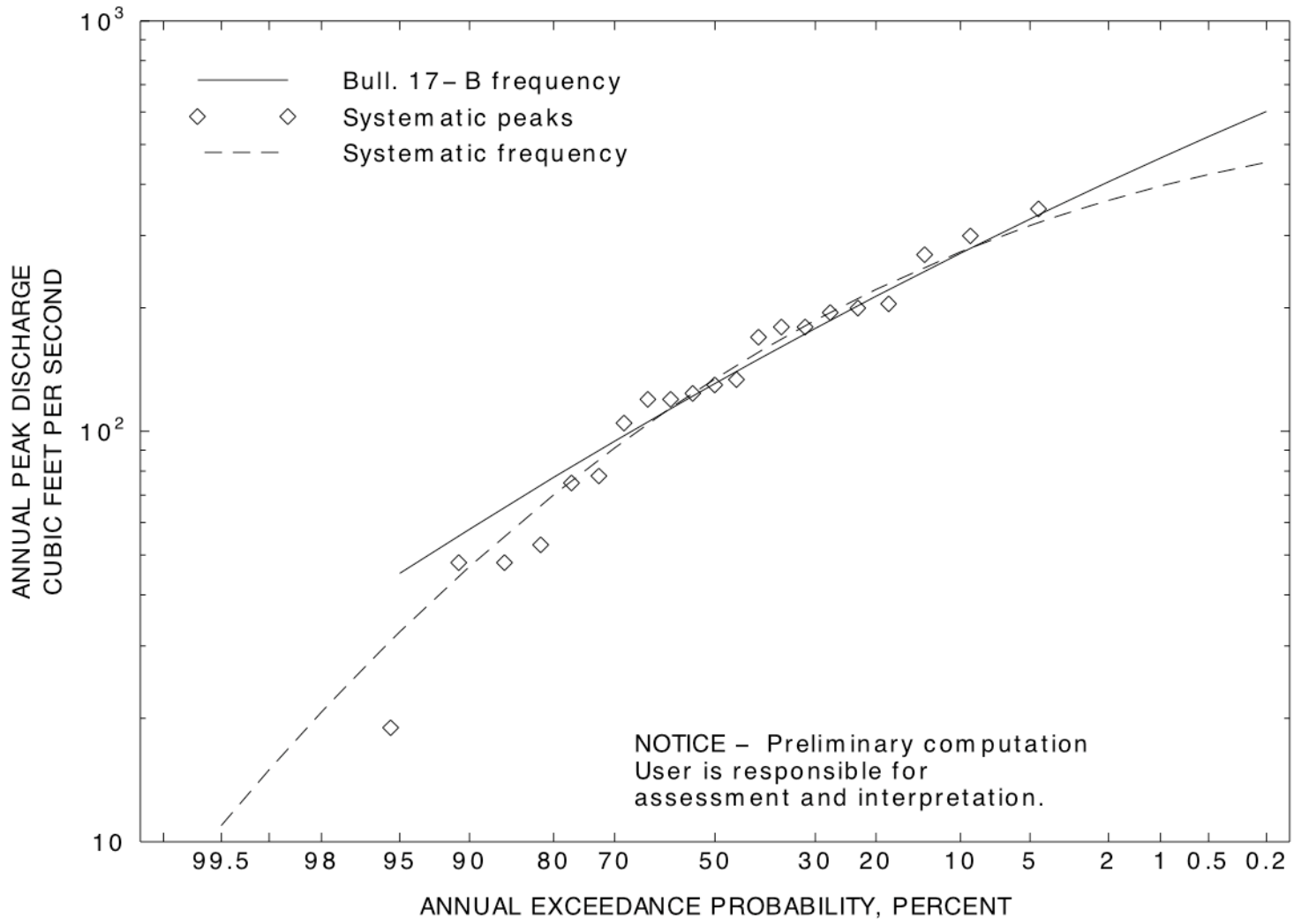
Explanation of peak discharge qualification codes

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
1960	349.0	0.0455	0.0455
1964	300.0	0.0909	0.0909
1969	270.0	0.1364	0.1364
1972	205.0	0.1818	0.1818
1968	200.0	0.2273	0.2273
1979	195.0	0.2727	0.2727
1971	180.0	0.3182	0.3182
1981	180.0	0.3636	0.3636
1965	170.0	0.4091	0.4091
1970	134.0	0.4545	0.4545
1961	130.0	0.5000	0.5000
1973	124.0	0.5455	0.5455
1962	120.0	0.5909	0.5909
1978	120.0	0.6364	0.6364
1980	105.0	0.6818	0.6818
1959	78.0	0.7273	0.7273
1966	75.0	0.7727	0.7727
1967	53.0	0.8182	0.8182
1958	48.0	0.8636	0.8636
1977	48.0	0.9091	0.9091
1963	19.0	0.9545	0.9545



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