

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

Station - 05426100 SCUPPERNONG CREEK NEAR WALES, WI
 2002 MAR 13 09:03:18

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

Number of peaks in record	=	19
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	19
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	=	80.0
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.	6	80.0	
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		196.6	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		64.8	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	6	80.0	4
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	80.0	0.6842	1.9897	0.1342	0.577
BULL.17B ESTIMATE	80.0	0.6842	1.9897	0.1342	0.080

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	97.2	94.8	97.2	86.1	109.7
0.2000	126.5	125.1	128.2	111.9	149.1
0.1000	145.5	147.1	149.4	126.8	178.0
0.0400	169.1	177.4	177.8	144.4	216.7
0.0200	186.6	201.7	200.4	156.7	246.9
0.0100	204.0	227.6	224.7	168.7	278.1
0.0050	221.5	255.3	251.1	180.5	310.6
0.0020	244.9	295.2	290.1	195.8	355.6
0.6667	85.2	(1.50-year flood)			
0.4292	102.7	(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
1962	100.0		1972	120.0	
1963	80.0	L	1973	195.0	
1964	80.0	L	1974	105.0	
1965	85.0		1975	90.0	
1966	140.0		1976	95.0	
1967	80.0	L	1977	60.0	L
1968	110.0		1978	85.0	
1969	165.0		1979	125.0	
1970	60.0	L	1980	100.0	
1971	60.0	L			

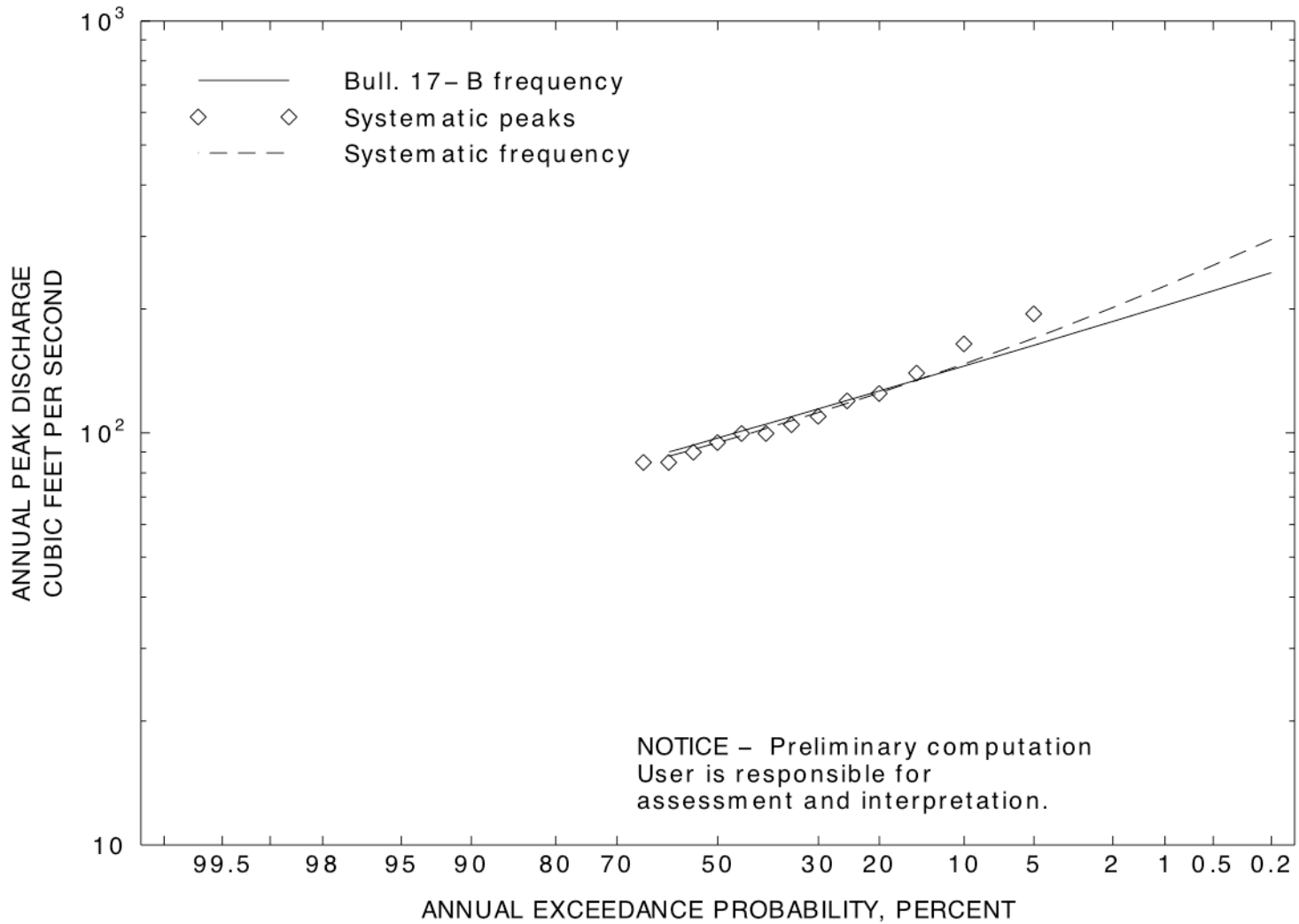
Explanation of peak discharge qualification codes

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
1973	195.0	0.0500	0.0500
1969	165.0	0.1000	0.1000
1966	140.0	0.1500	0.1500
1979	125.0	0.2000	0.2000
1972	120.0	0.2500	0.2500
1968	110.0	0.3000	0.3000
1974	105.0	0.3500	0.3500
1962	100.0	0.4000	0.4000
1980	100.0	0.4500	0.4500
1976	95.0	0.5000	0.5000
1975	90.0	0.5500	0.5500
1965	85.0	0.6000	0.6000
1978	85.0	0.6500	0.6500
1963	80.0	--	--
1964	80.0	--	--
1967	80.0	--	--
1970	60.0	--	--
1971	60.0	--	--
1977	60.0	--	--



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