

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

Station - 05401100 FOURTEENMILE CREEK NEAR NEW ROME, WI
 2002 MAR 13 09:03:06

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	=	1
Systematic peaks in analysis	=	18
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.353
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. *****

**WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.		1
**WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS =	=	18
WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.		0.0
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	62.5
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	504.7
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	0.0	1.0000	2.3340	0.2304	-1.849
BULL.17B ESTIMATE	62.5	0.9444	2.3669	0.1451	0.101

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	--	23.5	--	--	--
0.9900	--	33.3	--	--	--
0.9500	--	75.3	--	--	--
0.9000	152.3	107.5	148.0	121.7	177.0
0.8000	175.4	154.1	172.9	145.8	201.0
0.5000	231.5	251.4	231.5	202.1	264.8
0.2000	307.9	328.8	312.7	268.8	370.1
0.1000	358.5	353.9	369.8	308.0	449.6
0.0400	422.7	370.0	447.9	354.6	558.7
0.0200	470.8	375.9	511.7	387.8	645.5
0.0100	519.2	379.1	581.3	420.3	736.7
0.0050	568.2	380.9	658.4	452.4	832.8
0.0020	634.5	382.1	774.9	494.7	968.2
0.6667	200.7	(1.50-year flood)			
0.4292	245.6	(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
1961	260.0		1971	259.0	
1962	255.0		1972	374.0	
1963	230.0		1973	546.0	
1964	126.0		1974	177.0	
1965	194.0		1975	216.0	
1966	275.0		1976	182.0	
1967	270.0		1977	39.0	
1968	250.0		1978	231.0	
1969	261.0		1979	-419.0	K
1970	172.0				

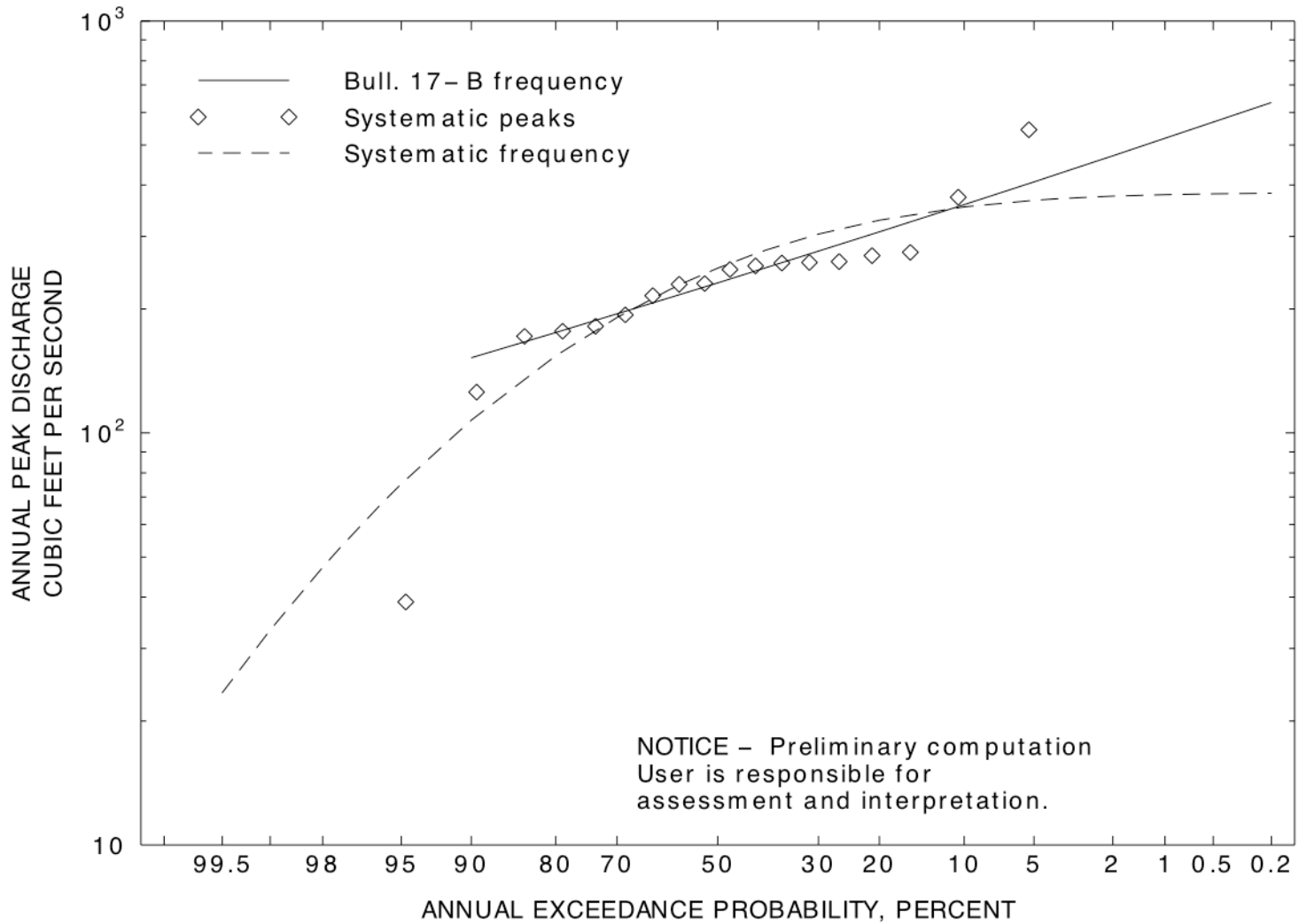
Explanation of peak discharge qualification codes

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
1973	546.0	0.0526	0.0526
1972	374.0	0.1053	0.1053
1966	275.0	0.1579	0.1579
1967	270.0	0.2105	0.2105
1969	261.0	0.2632	0.2632
1961	260.0	0.3158	0.3158
1971	259.0	0.3684	0.3684
1962	255.0	0.4211	0.4211
1968	250.0	0.4737	0.4737
1978	231.0	0.5263	0.5263
1963	230.0	0.5789	0.5789
1975	216.0	0.6316	0.6316
1965	194.0	0.6842	0.6842
1976	182.0	0.7368	0.7368
1974	177.0	0.7895	0.7895
1970	172.0	0.8421	0.8421
1964	126.0	0.8947	0.8947
1977	39.0	0.9474	0.9474
1979	-419.0	--	--



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