

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

Station - 05390240 FOURMILE CREEK NEAR THREE LAKES, WI
2002 MAR 13 09:03:01

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	=	-0.124
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	37.7
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		142.6

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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	1.8922	0.1280	-1.085
BULL.17B ESTIMATE	37.7	0.9583	1.9030	0.1030	-0.105

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	--	27.3	--	--	--
0.9900	--	31.5	--	--	--
0.9500	53.8	44.7	52.4	46.0	59.8
0.9000	58.9	52.6	57.9	51.5	64.7
0.8000	65.6	62.6	65.1	58.8	71.4
0.5000	80.3	82.2	80.3	74.0	87.2
0.2000	97.8	100.2	98.5	89.8	109.1
0.1000	108.1	108.2	109.7	98.4	123.3
0.0400	120.1	115.5	123.3	107.8	140.7
0.0200	128.4	119.4	133.3	114.2	153.3
0.0100	136.3	122.4	143.2	120.1	165.4
0.0050	143.9	124.8	153.2	125.7	177.4
0.0020	153.6	127.1	166.7	132.7	192.9
0.6667	72.5	(1.50-year flood)			
0.4292	83.8	(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
1970	32.0		1982	115.0	
1971	73.0		1983	55.0	
1972	70.0		1984	50.0	
1973	77.0		1985	60.0	
1974	76.0		1986	73.0	
1975	78.0		1987	110.0	
1976	70.0		1988	92.0	
1977	93.0		1989	85.0	
1978	85.0		1990	82.0	
1979	115.0		1991	122.0	
1980	101.0		1992	76.0	
1981	85.0		1993	70.0	

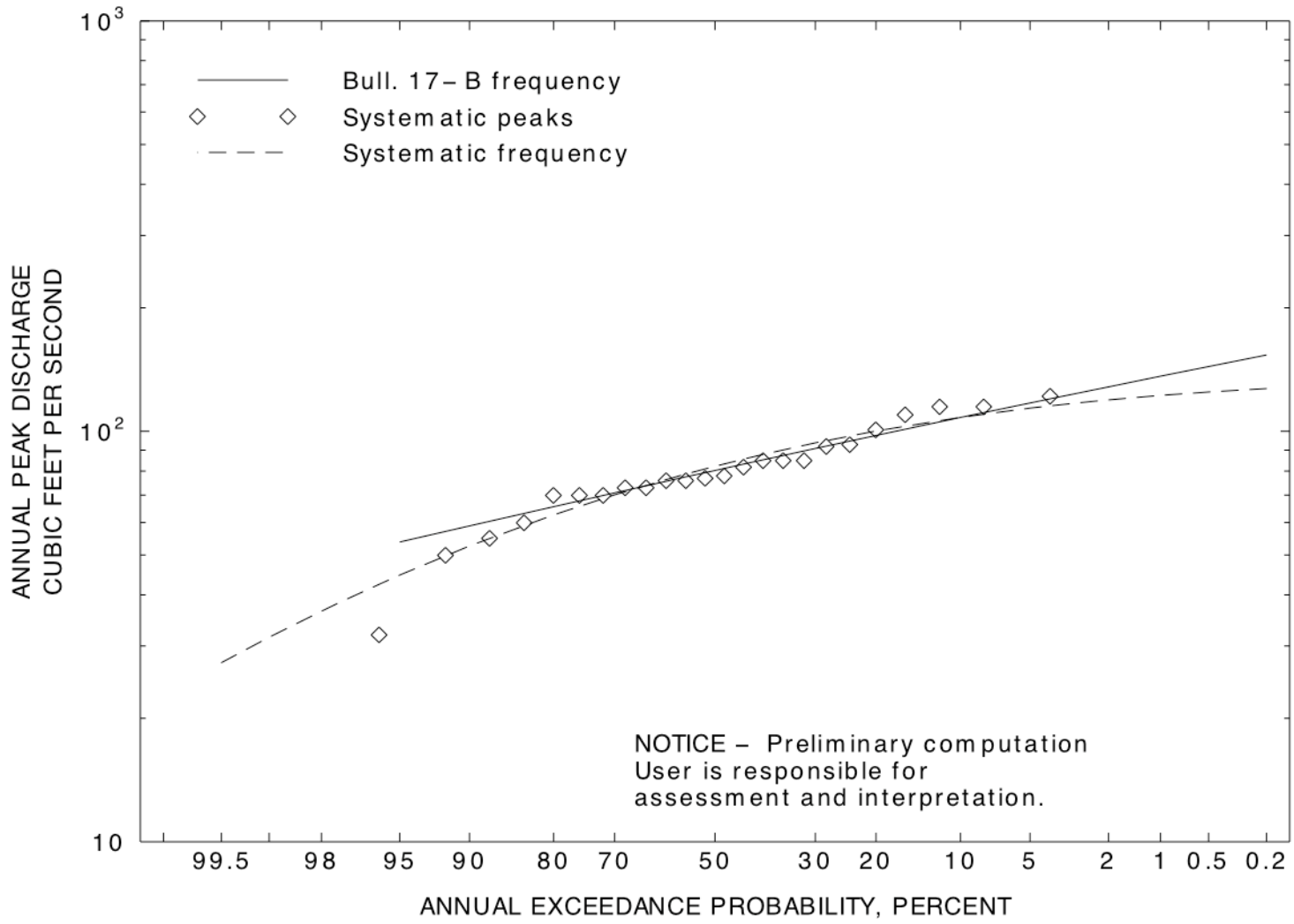
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	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
1991	122.0	0.0400	0.0400
1979	115.0	0.0800	0.0800
1982	115.0	0.1200	0.1200
1987	110.0	0.1600	0.1600
1980	101.0	0.2000	0.2000
1977	93.0	0.2400	0.2400
1988	92.0	0.2800	0.2800
1978	85.0	0.3200	0.3200
1981	85.0	0.3600	0.3600
1989	85.0	0.4000	0.4000
1990	82.0	0.4400	0.4400
1975	78.0	0.4800	0.4800
1973	77.0	0.5200	0.5200
1974	76.0	0.5600	0.5600
1992	76.0	0.6000	0.6000
1971	73.0	0.6400	0.6400
1986	73.0	0.6800	0.6800
1972	70.0	0.7200	0.7200
1976	70.0	0.7600	0.7600
1993	70.0	0.8000	0.8000
1985	60.0	0.8400	0.8400
1983	55.0	0.8800	0.8800
1984	50.0	0.9200	0.9200
1970	32.0	0.9600	0.9600



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