

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

Station - 05403500 LEMONWEIR RIVER AT NEW LISBON, WI
 2002 MAR 13 09:03:09

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

Number of peaks in record	=	45
Peaks not used in analysis	=	1
Systematic peaks in analysis	=	44
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.385
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 = 44
 WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE. 0.0
 WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION. 607.0
 WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE. 11877.3
 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	3.4290	0.2375	-0.893
BULL.17B ESTIMATE	0.0	1.0000	3.4290	0.2375	-0.695

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	461.9	419.4	402.5	307.2	619.4
0.9900	574.3	534.1	518.0	398.9	748.0
0.9500	993.7	972.4	952.2	765.7	1209.0
0.9000	1296.0	1291.0	1263.0	1044.0	1533.0
0.8000	1743.0	1763.0	1722.0	1466.0	2014.0
0.5000	2859.0	2910.0	2859.0	2495.0	3290.0
0.2000	4291.0	4284.0	4322.0	3704.0	5124.0
0.1000	5131.0	5032.0	5197.0	4369.0	6286.0
0.0400	6066.0	5805.0	6191.0	5084.0	7633.0
0.0200	6678.0	6277.0	6851.0	5540.0	8540.0
0.0100	7224.0	6674.0	7452.0	5941.0	9368.0
0.0050	7715.0	7011.0	7998.0	6297.0	10120.0
0.0020	8294.0	7382.0	8659.0	6711.0	11030.0
0.6667	2243.3	(1.50-year flood)			
0.4292	3151.0	(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
1944	1610.0		1967	3140.0	
1945	3850.0		1968	3210.0	
1946	3850.0		1969	2930.0	
1947	2140.0		1970	2160.0	
1948	2960.0		1971	2100.0	
1949	920.0		1972	4460.0	
1950	2360.0		1973	4980.0	
1951	3720.0		1974	2400.0	
1952	5300.0		1975	3070.0	
1953	2480.0		1976	2330.0	
1954	3140.0		1977	686.0	
1955	2320.0		1978	5130.0	
1956	5580.0		1979	-2930.0	K
1957	1110.0		1980	2400.0	
1958	710.0		1981	2320.0	
1959	3300.0		1982	1720.0	
1960	6880.0		1983	3530.0	
1961	5480.0		1984	2000.0	
1962	3790.0		1985	2260.0	
1963	3190.0		1986	3710.0	
1964	779.0		1987	1950.0	
1965	4840.0		1994	3550.0	
1966	3640.0				

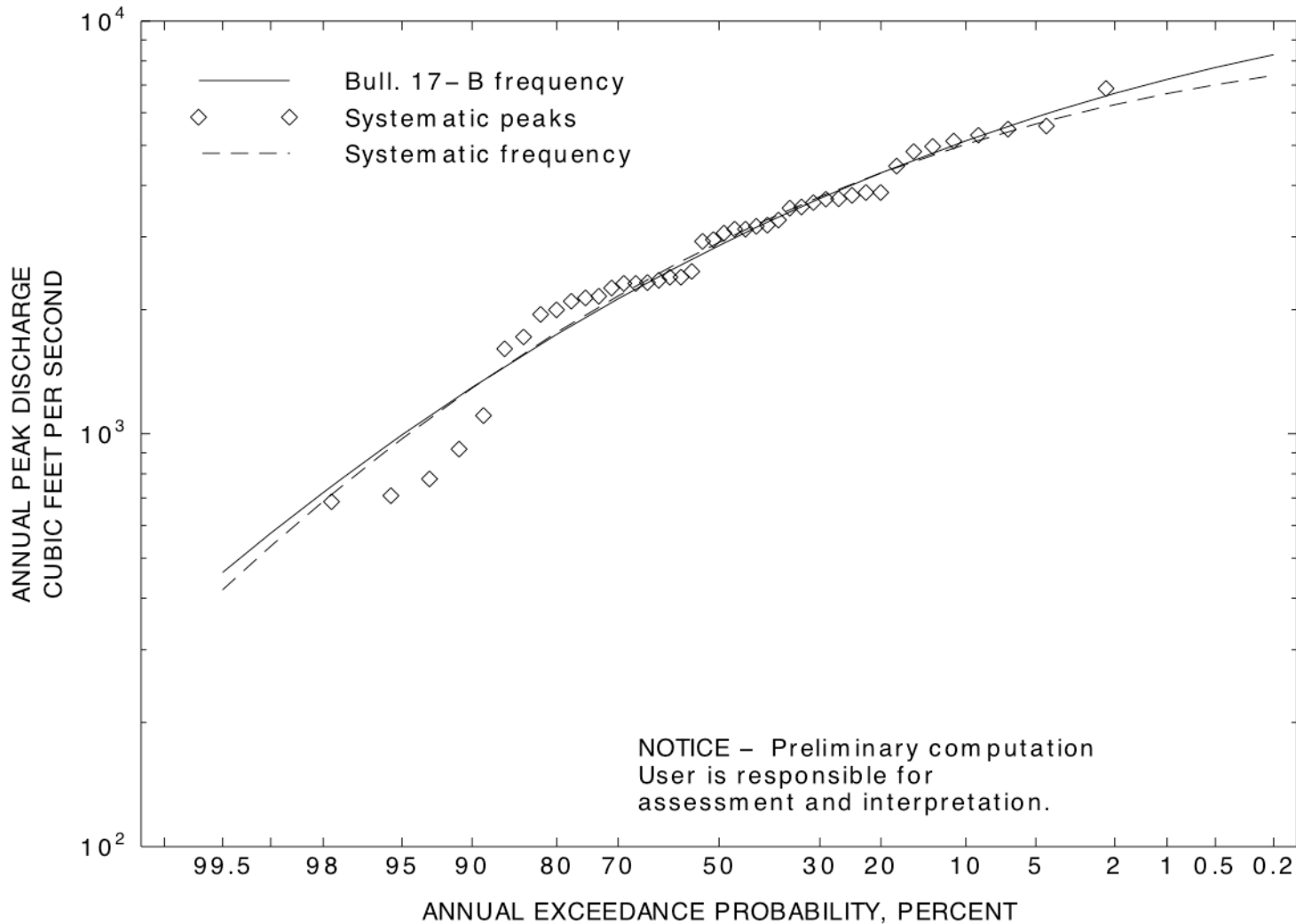
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
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	6880.0	0.0222	0.0222
1956	5580.0	0.0444	0.0444
1961	5480.0	0.0667	0.0667
1952	5300.0	0.0889	0.0889
1978	5130.0	0.1111	0.1111
1973	4980.0	0.1333	0.1333
1965	4840.0	0.1556	0.1556
1972	4460.0	0.1778	0.1778
1945	3850.0	0.2000	0.2000
1946	3850.0	0.2222	0.2222
1962	3790.0	0.2444	0.2444
1951	3720.0	0.2667	0.2667
1986	3710.0	0.2889	0.2889
1966	3640.0	0.3111	0.3111
1994	3550.0	0.3333	0.3333
1983	3530.0	0.3556	0.3556
1959	3300.0	0.3778	0.3778
1968	3210.0	0.4000	0.4000
1963	3190.0	0.4222	0.4222
1954	3140.0	0.4444	0.4444
1967	3140.0	0.4667	0.4667
1975	3070.0	0.4889	0.4889
1948	2960.0	0.5111	0.5111
1969	2930.0	0.5333	0.5333
1953	2480.0	0.5556	0.5556
1974	2400.0	0.5778	0.5778
1980	2400.0	0.6000	0.6000
1950	2360.0	0.6222	0.6222
1976	2330.0	0.6444	0.6444
1955	2320.0	0.6667	0.6667
1981	2320.0	0.6889	0.6889
1985	2260.0	0.7111	0.7111
1970	2160.0	0.7333	0.7333
1947	2140.0	0.7556	0.7556
1971	2100.0	0.7778	0.7778
1984	2000.0	0.8000	0.8000
1987	1950.0	0.8222	0.8222
1982	1720.0	0.8444	0.8444
1944	1610.0	0.8667	0.8667
1957	1110.0	0.8889	0.8889
1949	920.0	0.9111	0.9111
1964	779.0	0.9333	0.9333
1958	710.0	0.9556	0.9556
1977	686.0	0.9778	0.9778
1979	-2930.0	--	--



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