

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

Station - 04087050 LITTLE MENOMONEE RIVER NEAR FREISTADT, WI
 2002 MAR 13 09:02:42

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

Number of peaks in record	=	36
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	36
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.390
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	94.0
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.	9	94.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		72.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		544.4

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	94.0	0.7500	2.2115	0.2251	-0.363
BULL.17B ESTIMATE	94.0	0.7500	2.2115	0.2251	-0.373

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	168.1	167.9	168.1	145.6	194.6
0.2000	253.4	253.4	255.9	217.5	306.1
0.1000	308.7	308.9	314.4	260.5	385.0
0.0400	376.1	376.8	388.0	310.8	486.8
0.0200	424.3	425.5	442.4	345.6	562.7
0.0100	470.8	472.5	496.7	378.4	638.0
0.0050	515.9	518.3	550.9	409.7	712.9
0.0020	573.8	577.1	623.3	449.1	811.3
0.6667	133.8	(1.50-year flood)			
0.4292	184.4	(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	63.0		1976	240.0	
1959	200.0		1977	77.0	
1960	305.0		1978	213.0	
1961	105.0		1979	164.0	
1962	150.0		1980	130.0	
1963	123.0		1981	55.0	
1964	340.0		1982	305.0	
1965	225.0		1983	130.0	
1966	300.0		1984	185.0	
1967	70.0		1985	94.0	
1968	100.0		1986	360.0	
1969	215.0		1987	87.0	
1970	160.0		1988	145.0	
1971	200.0		1989	74.0	
1972	165.0		1990	90.0	
1973	360.0		1991	94.0	L
1974	290.0		1992	110.0	
1975	225.0		1993	340.0	

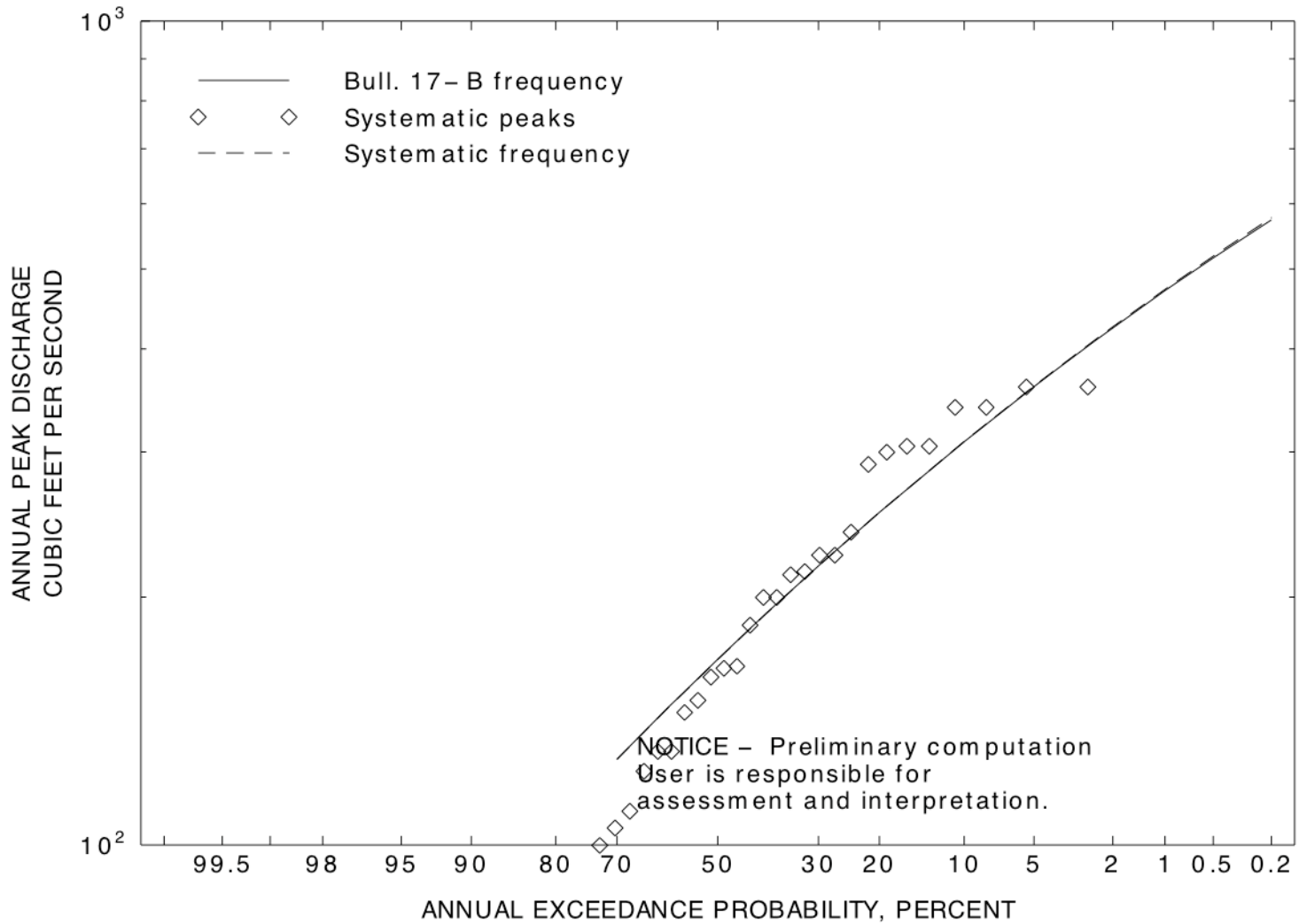
Explanation of peak discharge qualification codes

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	360.0	0.0270	0.0270
1986	360.0	0.0541	0.0541
1964	340.0	0.0811	0.0811
1993	340.0	0.1081	0.1081
1960	305.0	0.1351	0.1351
1982	305.0	0.1622	0.1622
1966	300.0	0.1892	0.1892
1974	290.0	0.2162	0.2162
1976	240.0	0.2432	0.2432
1965	225.0	0.2703	0.2703
1975	225.0	0.2973	0.2973
1969	215.0	0.3243	0.3243
1978	213.0	0.3514	0.3514
1959	200.0	0.3784	0.3784
1971	200.0	0.4054	0.4054
1984	185.0	0.4324	0.4324
1972	165.0	0.4595	0.4595
1979	164.0	0.4865	0.4865
1970	160.0	0.5135	0.5135
1962	150.0	0.5405	0.5405
1988	145.0	0.5676	0.5676
1980	130.0	0.5946	0.5946
1983	130.0	0.6216	0.6216
1963	123.0	0.6486	0.6486
1992	110.0	0.6757	0.6757
1961	105.0	0.7027	0.7027
1968	100.0	0.7297	0.7297
1985	94.0	--	--
1991	94.0	--	--
1990	90.0	--	--
1987	87.0	--	--
1977	77.0	--	--
1989	74.0	--	--
1967	70.0	--	--
1958	63.0	--	--
1981	55.0	--	--



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