

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

Station - 05382500 LITTLE LA CROSSE RIVER NEAR LEON, WI
 2002 MAR 13 09:02:59

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

Number of peaks in record	=	47
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	47
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.397
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
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	162.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	5834.0

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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	2.9884	0.2834	-0.173
BULL.17B ESTIMATE	0.0	1.0000	2.9884	0.2834	-0.237

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	156.9	163.2	140.3	103.6	212.8
0.9900	190.7	196.6	175.0	130.6	252.3
0.9500	319.2	322.8	307.1	239.6	397.5
0.9000	415.8	417.3	406.0	325.6	504.3
0.8000	567.3	565.8	560.7	463.6	671.8
0.5000	999.1	992.1	999.1	852.9	1172.0
0.2000	1697.0	1694.0	1714.0	1432.0	2080.0
0.1000	2206.0	2218.0	2248.0	1824.0	2804.0
0.0400	2889.0	2933.0	2986.0	2326.0	3831.0
0.0200	3418.0	3498.0	3576.0	2703.0	4665.0
0.0100	3962.0	4087.0	4200.0	3080.0	5551.0
0.0050	4522.0	4703.0	4862.0	3459.0	6488.0
0.0020	5286.0	5557.0	5803.0	3966.0	7806.0
0.6667	751.2	(1.50-year flood)			
0.4292	1122.7	(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
1934	1370.0		1958	426.0	
1935	4620.0		1959	1380.0	
1936	1210.0		1960	1160.0	
1937	457.0		1961	3000.0	
1938	881.0		1962	600.0	
1939	580.0		1963	730.0	
1940	913.0		1964	285.0	
1941	1210.0		1965	280.0	
1942	1480.0		1966	2150.0	
1943	520.0		1967	1330.0	
1944	1210.0		1968	1570.0	
1945	1330.0		1969	960.0	
1946	1400.0		1970	810.0	
1947	2300.0		1971	210.0	
1948	960.0		1972	760.0	
1949	414.0		1973	960.0	
1950	1200.0		1974	730.0	
1951	532.0		1975	825.0	
1952	1190.0		1976	1040.0	
1953	371.0		1977	635.0	
1954	1160.0		1978	2440.0	
1955	2100.0		1980	1770.0	
1956	1840.0		1981	2110.0	
1957	522.0				

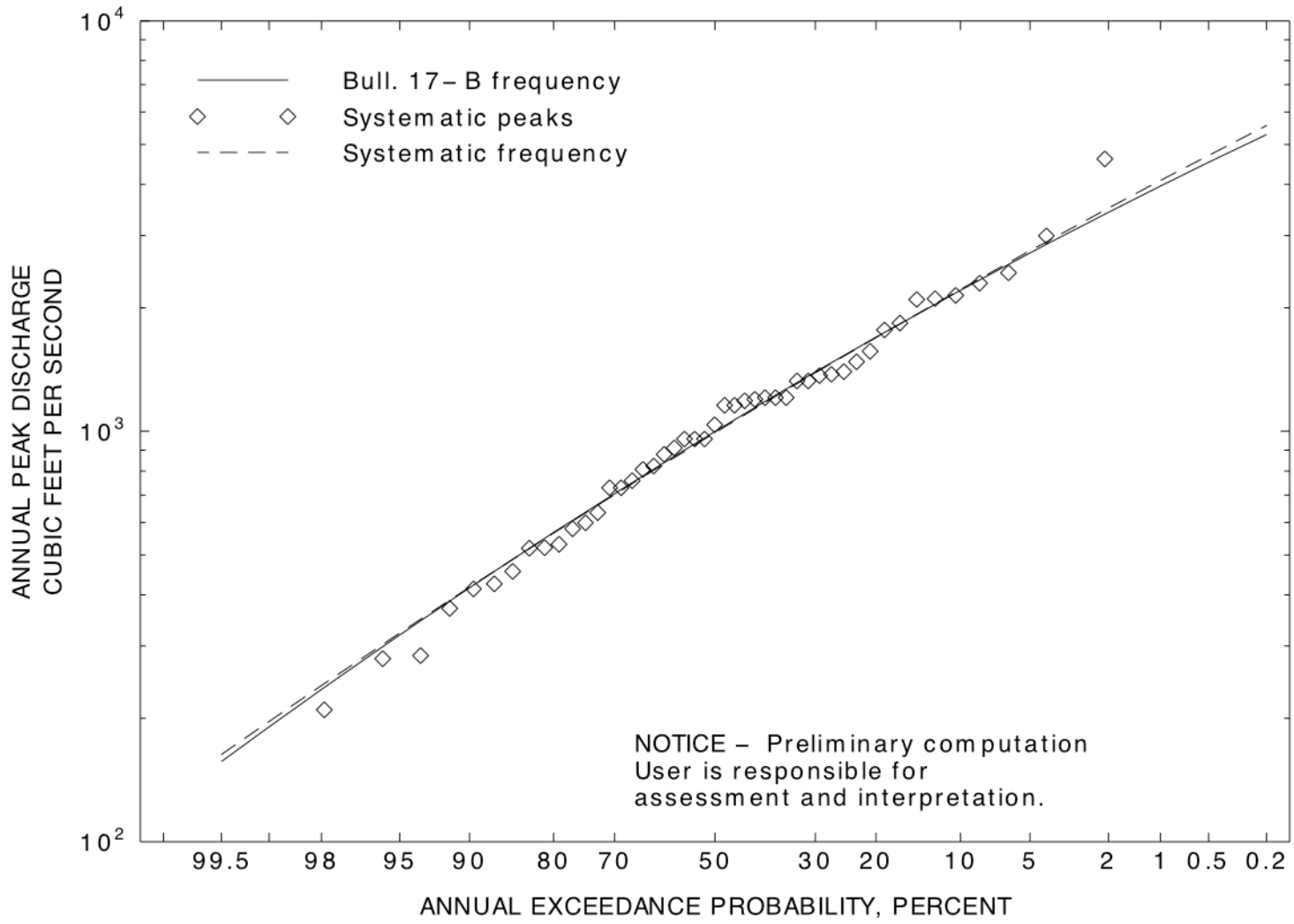
Explanation of peak discharge qualification codes

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
1935	4620.0	0.0208	0.0208
1961	3000.0	0.0417	0.0417
1978	2440.0	0.0625	0.0625
1947	2300.0	0.0833	0.0833
1966	2150.0	0.1042	0.1042
1981	2110.0	0.1250	0.1250
1955	2100.0	0.1458	0.1458
1956	1840.0	0.1667	0.1667
1980	1770.0	0.1875	0.1875
1968	1570.0	0.2083	0.2083
1942	1480.0	0.2292	0.2292
1946	1400.0	0.2500	0.2500
1959	1380.0	0.2708	0.2708
1934	1370.0	0.2917	0.2917
1945	1330.0	0.3125	0.3125
1967	1330.0	0.3333	0.3333
1936	1210.0	0.3542	0.3542
1941	1210.0	0.3750	0.3750
1944	1210.0	0.3958	0.3958
1950	1200.0	0.4167	0.4167
1952	1190.0	0.4375	0.4375
1954	1160.0	0.4583	0.4583
1960	1160.0	0.4792	0.4792
1976	1040.0	0.5000	0.5000
1948	960.0	0.5208	0.5208
1969	960.0	0.5417	0.5417
1973	960.0	0.5625	0.5625
1940	913.0	0.5833	0.5833
1938	881.0	0.6042	0.6042
1975	825.0	0.6250	0.6250
1970	810.0	0.6458	0.6458
1972	760.0	0.6667	0.6667
1963	730.0	0.6875	0.6875
1974	730.0	0.7083	0.7083
1977	635.0	0.7292	0.7292
1962	600.0	0.7500	0.7500
1939	580.0	0.7708	0.7708
1951	532.0	0.7917	0.7917
1957	522.0	0.8125	0.8125
1943	520.0	0.8333	0.8333
1937	457.0	0.8542	0.8542
1958	426.0	0.8750	0.8750
1949	414.0	0.8958	0.8958
1953	371.0	0.9167	0.9167
1964	285.0	0.9375	0.9375
1965	280.0	0.9583	0.9583
1971	210.0	0.9792	0.9792



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