

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

Station - 04085100 EAST RIVER TRIBUTARY AT GREENLEAF, WI  
 2002 MAR 13 09:02:38

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	23
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	23
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.311
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.	39.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1138.9

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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	2.3258	0.2985	-0.054
BULL.17B ESTIMATE	0.0	1.0000	2.3258	0.2985	-0.162

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	32.5	34.8	25.5	16.5	49.9
0.9900	39.5	41.6	32.8	21.3	58.6
0.9500	66.3	67.7	61.0	41.5	90.9
0.9000	86.8	87.4	82.5	58.3	114.9
0.8000	119.5	119.0	116.5	86.4	153.2
0.5000	215.7	213.0	215.7	169.3	275.5
0.2000	379.4	378.2	388.0	295.5	525.7
0.1000	504.4	508.8	526.7	382.1	746.0
0.0400	678.2	696.2	732.8	494.4	1084.0
0.0200	817.7	851.4	910.5	579.9	1376.0
0.0100	964.9	1019.0	1112.0	666.8	1703.0
0.0050	1120.0	1201.0	1340.0	755.4	2066.0
0.0020	1338.0	1463.0	1690.0	875.8	2603.0
0.6667	159.9	( 1.50-year flood )			
0.4292	243.9	( 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	80.0		1970	170.0	
1959	445.0		1971	325.0	
1960	550.0		1972	200.0	
1961	493.0		1973	245.0	
1962	390.0		1974	110.0	
1963	105.0		1975	200.0	
1964	80.0		1976	300.0	
1965	80.0		1977	85.0	
1966	260.0		1978	90.0	
1967	390.0		1979	320.0	
1968	200.0		1980	190.0	
1969	730.0				

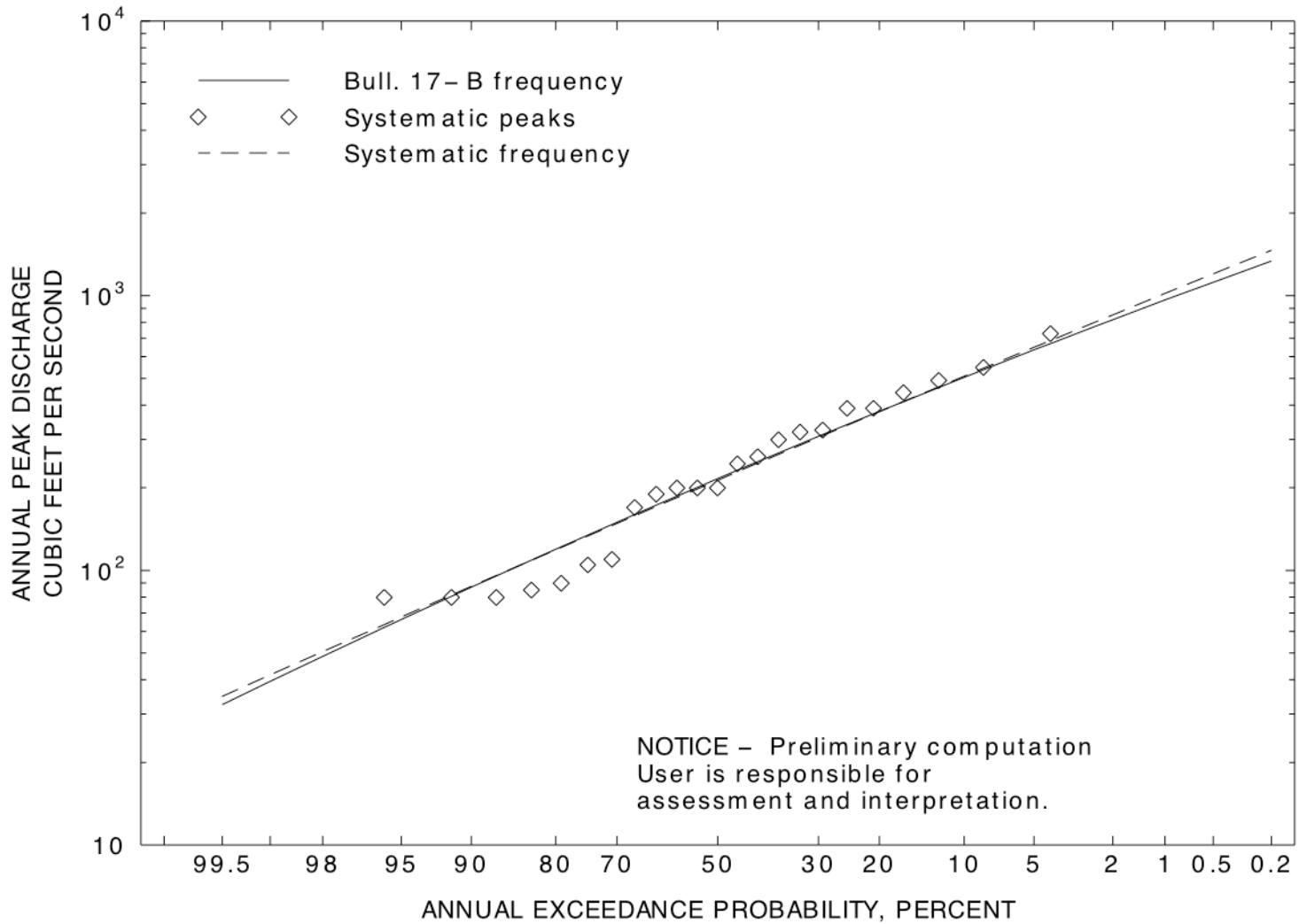
Explanation of peak discharge qualification codes

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
1969	730.0	0.0417	0.0417
1960	550.0	0.0833	0.0833
1961	493.0	0.1250	0.1250
1959	445.0	0.1667	0.1667
1962	390.0	0.2083	0.2083
1967	390.0	0.2500	0.2500
1971	325.0	0.2917	0.2917
1979	320.0	0.3333	0.3333
1976	300.0	0.3750	0.3750
1966	260.0	0.4167	0.4167
1973	245.0	0.4583	0.4583
1968	200.0	0.5000	0.5000
1972	200.0	0.5417	0.5417
1975	200.0	0.5833	0.5833
1980	190.0	0.6250	0.6250
1970	170.0	0.6667	0.6667
1974	110.0	0.7083	0.7083
1963	105.0	0.7500	0.7500
1978	90.0	0.7917	0.7917
1977	85.0	0.8333	0.8333
1958	80.0	0.8750	0.8750
1964	80.0	0.9167	0.9167
1965	80.0	0.9583	0.9583



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