

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

Station - 05434200 SKINNER CREEK TRIBUTARY NEAR MONROE, WI  
2002 MAR 13 09:03:25

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	22
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	22
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.400
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.	6.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	241.3

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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	1.5984	0.3228	-0.520
BULL.17B ESTIMATE	0.0	1.0000	1.5984	0.3228	-0.463

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	4.2	4.1	3.0	1.9	7.1
0.9900	5.5	5.3	4.2	2.6	8.7
0.9500	10.7	10.6	9.6	6.2	15.2
0.9000	14.9	14.8	13.9	9.5	20.3
0.8000	21.7	21.8	21.0	15.2	28.5
0.5000	42.0	42.3	42.0	32.2	55.2
0.2000	75.0	75.0	76.7	56.9	107.9
0.1000	98.4	97.7	102.5	72.7	150.9
0.0400	128.5	126.4	137.9	91.8	211.6
0.0200	151.0	147.4	165.7	105.3	260.1
0.0100	173.1	167.7	194.9	118.3	310.4
0.0050	195.0	187.5	225.2	130.8	362.1
0.0020	223.5	212.8	267.0	146.6	432.5
0.6667	30.3	( 1.50-year flood )			
0.4292	48.0	( 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
1959	10.0		1970	22.0	
1960	118.0		1971	36.0	
1961	38.0		1972	24.0	
1962	55.0		1973	80.0	
1963	18.0		1974	64.0	
1964	26.0		1975	68.0	
1965	50.0		1976	82.0	
1966	65.0		1977	35.0	
1967	64.0		1978	145.0	
1968	7.0		1979	32.0	
1969	38.0		1980	26.0	

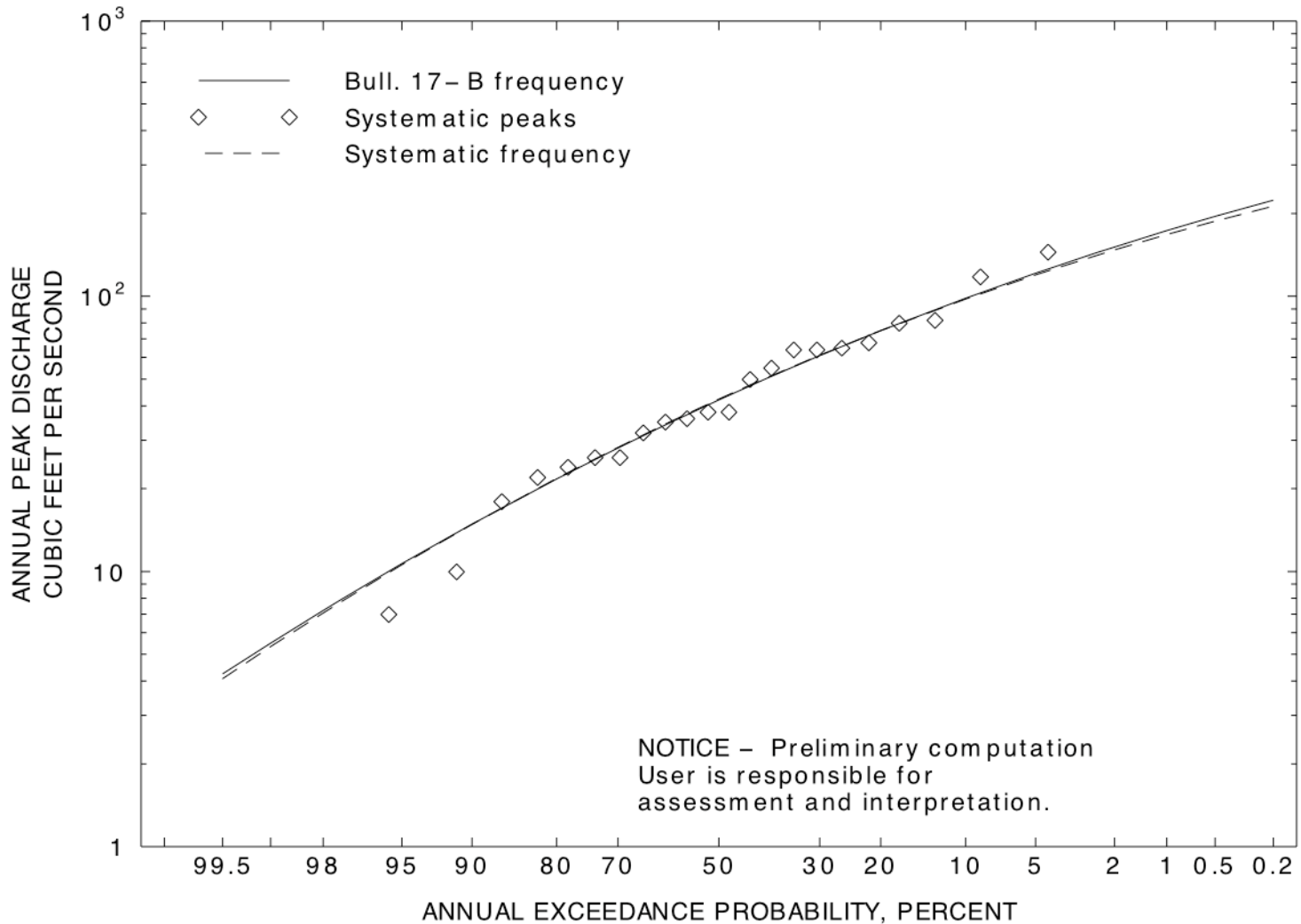
Explanation of peak discharge qualification codes

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
1978	145.0	0.0435	0.0435
1960	118.0	0.0870	0.0870
1976	82.0	0.1304	0.1304
1973	80.0	0.1739	0.1739
1975	68.0	0.2174	0.2174
1966	65.0	0.2609	0.2609
1967	64.0	0.3043	0.3043
1974	64.0	0.3478	0.3478
1962	55.0	0.3913	0.3913
1965	50.0	0.4348	0.4348
1961	38.0	0.4783	0.4783
1969	38.0	0.5217	0.5217
1971	36.0	0.5652	0.5652
1977	35.0	0.6087	0.6087
1979	32.0	0.6522	0.6522
1964	26.0	0.6957	0.6957
1980	26.0	0.7391	0.7391
1972	24.0	0.7826	0.7826
1970	22.0	0.8261	0.8261
1963	18.0	0.8696	0.8696
1959	10.0	0.9130	0.9130
1968	7.0	0.9565	0.9565



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