

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

Station - 04083500 EAST BR FOND DU LAC R AT FOND DU LAC, 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	=	16
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	16
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.366
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	121.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		3865.6

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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	2.8957	0.3554	-1.355
BULL.17B ESTIMATE	121.8	0.9375	2.9226	0.3103	-0.708

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	--	35.3	--	--	--
0.9900	--	55.3	--	--	--
0.9500	--	161.8	--	--	--
0.9000	322.7	263.1	293.0	189.0	456.1
0.8000	476.0	439.3	455.1	314.0	645.2
0.5000	909.7	940.6	909.7	673.2	1250.0
0.2000	1544.0	1558.0	1586.0	1135.0	2371.0
0.1000	1947.0	1860.0	2042.0	1398.0	3209.0
0.0400	2419.0	2130.0	2613.0	1685.0	4285.0
0.0200	2738.0	2268.0	3021.0	1871.0	5068.0
0.0100	3030.0	2368.0	3408.0	2037.0	5817.0
0.0050	3297.0	2441.0	3781.0	2184.0	6531.0
0.0020	3617.0	2507.0	4232.0	2358.0	7419.0
0.6667	662.5	( 1.50-year flood )			
0.4292	1032.7	( 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
1939	397.0		1947	1220.0	
1940	2140.0		1948	1100.0	
1941	1090.0		1949	403.0	
1942	920.0		1950	1100.0	
1943	1500.0		1951	899.0	
1944	170.0		1952	964.0	
1945	1600.0		1953	745.0	
1946	1460.0		1954	110.0	

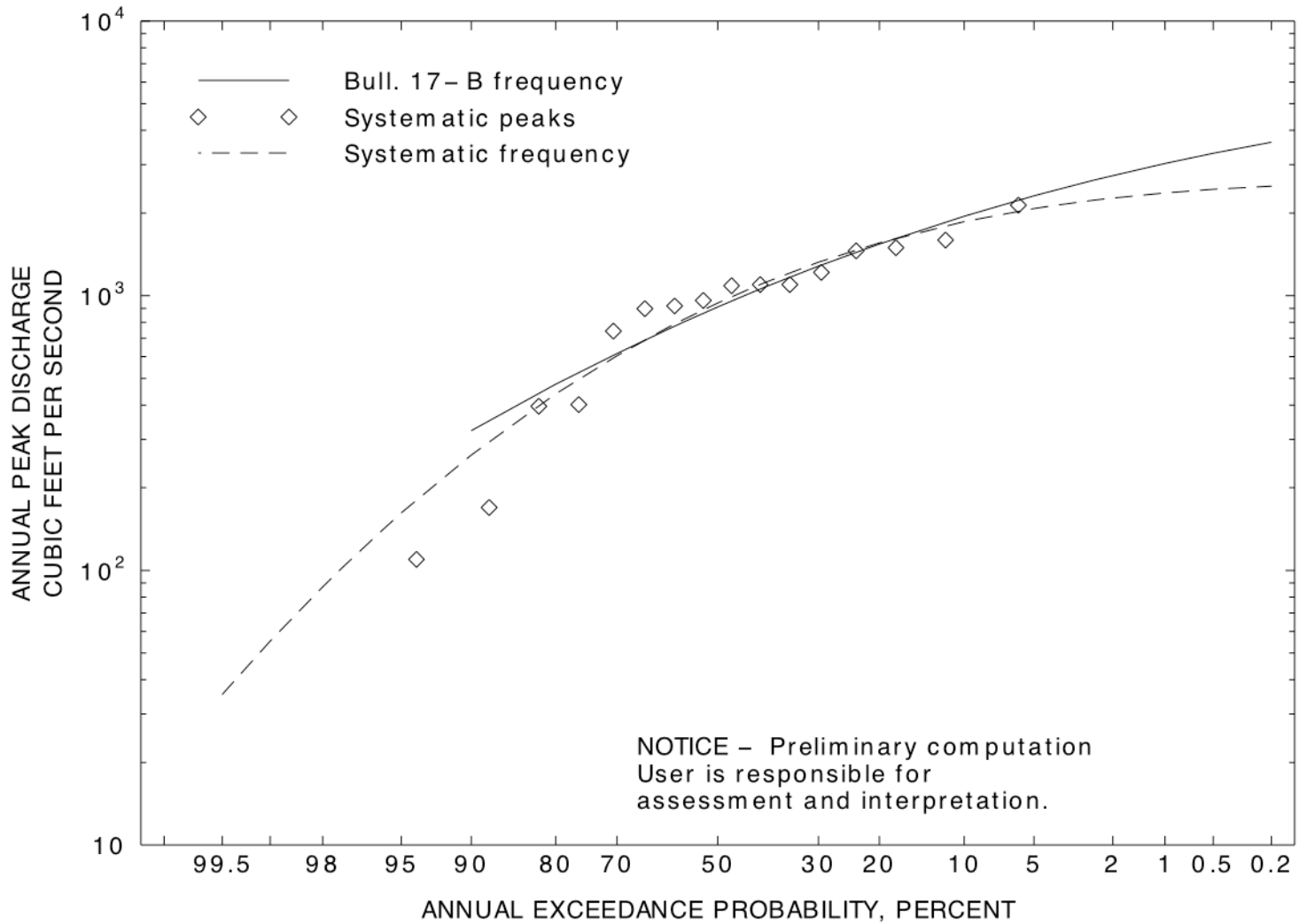
Explanation of peak discharge qualification codes

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
1940	2140.0	0.0588	0.0588
1945	1600.0	0.1176	0.1176
1943	1500.0	0.1765	0.1765
1946	1460.0	0.2353	0.2353
1947	1220.0	0.2941	0.2941
1948	1100.0	0.3529	0.3529
1950	1100.0	0.4118	0.4118
1941	1090.0	0.4706	0.4706
1952	964.0	0.5294	0.5294
1942	920.0	0.5882	0.5882
1951	899.0	0.6471	0.6471
1953	745.0	0.7059	0.7059
1949	403.0	0.7647	0.7647
1939	397.0	0.8235	0.8235
1944	170.0	0.8824	0.8824
1954	110.0	0.9412	0.9412



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