

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

Station - 04083000 WEST BR FOND DU LAC R AT FOND DU LAC, WI  
 2002 MAR 13 09:02:35

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	101.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2297.2

Station - 04083000 WEST BR FOND DU LAC R AT FOND DU LAC, WI  
 2002 MAR 13 09:02:35

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.8067	0.3507	-2.119
BULL.17B ESTIMATE	101.8	0.9375	2.8545	0.2361	-0.698

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	--	18.6	--	--	--
0.9900	--	33.2	--	--	--
0.9500	--	127.2	--	--	--
0.9000	346.6	225.8	322.1	230.7	450.9
0.8000	465.5	398.5	449.9	339.2	586.7
0.5000	761.6	830.3	761.6	605.7	969.7
0.2000	1140.0	1186.0	1164.0	901.9	1580.0
0.1000	1362.0	1288.0	1412.0	1058.0	1991.0
0.0400	1608.0	1343.0	1706.0	1221.0	2486.0
0.0200	1768.0	1359.0	1907.0	1323.0	2828.0
0.0100	1912.0	1367.0	2093.0	1412.0	3145.0
0.0050	2040.0	1370.0	2269.0	1490.0	3439.0
0.0020	2192.0	1372.0	2476.0	1581.0	3794.0
0.6667	598.4	( 1.50-year flood )			
0.4292	838.8	( 2.33-year flood )			

Station - 04083000 WEST BR FOND DU LAC R AT FOND DU LAC, WI  
2002 MAR 13 09:02:35

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	602.0		1947	770.0	
1940	1000.0		1948	457.0	
1941	1000.0		1949	501.0	
1942	1320.0		1950	642.0	
1943	1390.0		1951	741.0	
1944	202.0		1952	894.0	
1945	686.0		1953	1040.0	
1946	1210.0		1954	56.0	

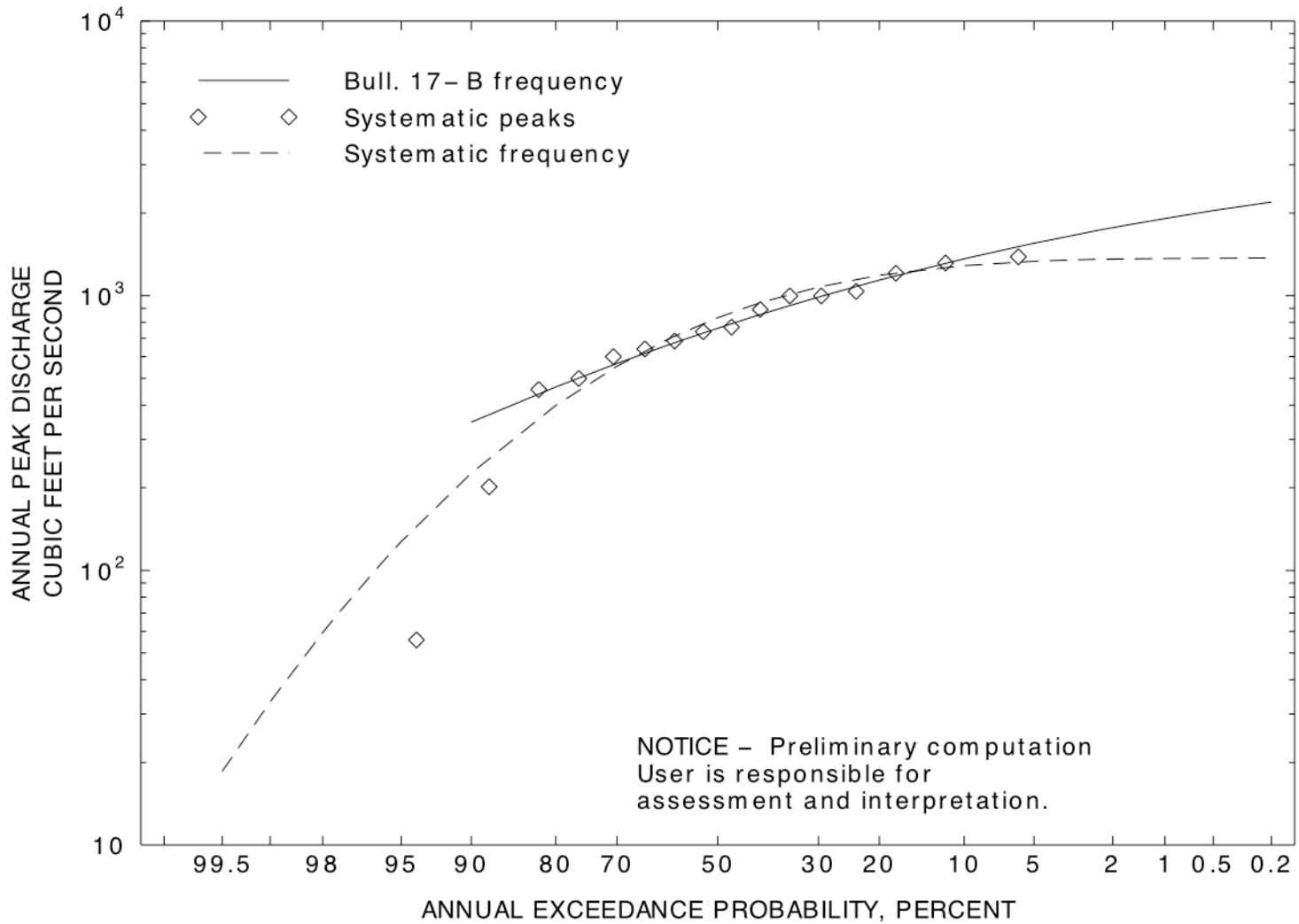
Explanation of peak discharge qualification codes

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

Station - 04083000 WEST BR FOND DU LAC R AT FOND DU LAC, WI  
2002 MAR 13 09:02:35

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1943	1390.0	0.0588	0.0588
1942	1320.0	0.1176	0.1176
1946	1210.0	0.1765	0.1765
1953	1040.0	0.2353	0.2353
1940	1000.0	0.2941	0.2941
1941	1000.0	0.3529	0.3529
1952	894.0	0.4118	0.4118
1947	770.0	0.4706	0.4706
1951	741.0	0.5294	0.5294
1945	686.0	0.5882	0.5882
1950	642.0	0.6471	0.6471
1939	602.0	0.7059	0.7059
1949	501.0	0.7647	0.7647
1948	457.0	0.8235	0.8235
1944	202.0	0.8824	0.8824
1954	56.0	0.9412	0.9412



Station - 04083000 WEST BR FOND DU LAC R AT FOND DU LAC, WI  
2002 MAR 13 09:02:35