

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

Station - 05427718 YAHARA RIVER AT WINDSOR, WI  
 2002 MAR 13 09:03:20

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	=	-0.393
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	1535.8
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		111.2

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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	2.6161	0.2502	1.242
BULL.17B ESTIMATE	0.0	1.0000	2.6161	0.2502	0.199

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	104.3	177.3	83.9	54.2	152.8
0.9900	117.7	182.2	99.1	64.1	168.5
0.9500	165.7	203.7	152.5	102.4	223.7
0.9000	200.1	222.2	189.9	131.9	263.0
0.8000	253.2	254.4	246.4	179.3	324.4
0.5000	405.4	367.9	405.4	315.6	518.7
0.2000	666.7	628.1	688.0	520.8	938.4
0.1000	874.2	894.1	931.7	663.2	1337.0
0.0400	1177.0	1383.0	1328.0	853.2	1999.0
0.0200	1433.0	1895.0	1707.0	1003.0	2620.0
0.0100	1716.0	2575.0	2184.0	1161.0	3363.0
0.0050	2029.0	3476.0	2787.0	1329.0	4248.0
0.0020	2494.0	5128.0	3861.0	1566.0	5672.0
0.6667	317.7	( 1.50-year flood )			
0.4292	448.8	( 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
1976	587.0		1993	2050.0	
1977	198.0		1994	543.0	
1978	398.0		1995	178.0	
1979	224.0		1996	460.0	
1980	438.0		1997	464.0	
1981	340.0		1998	413.0	
1990	348.0		1999	308.0	
1991	332.0		2000	752.0	

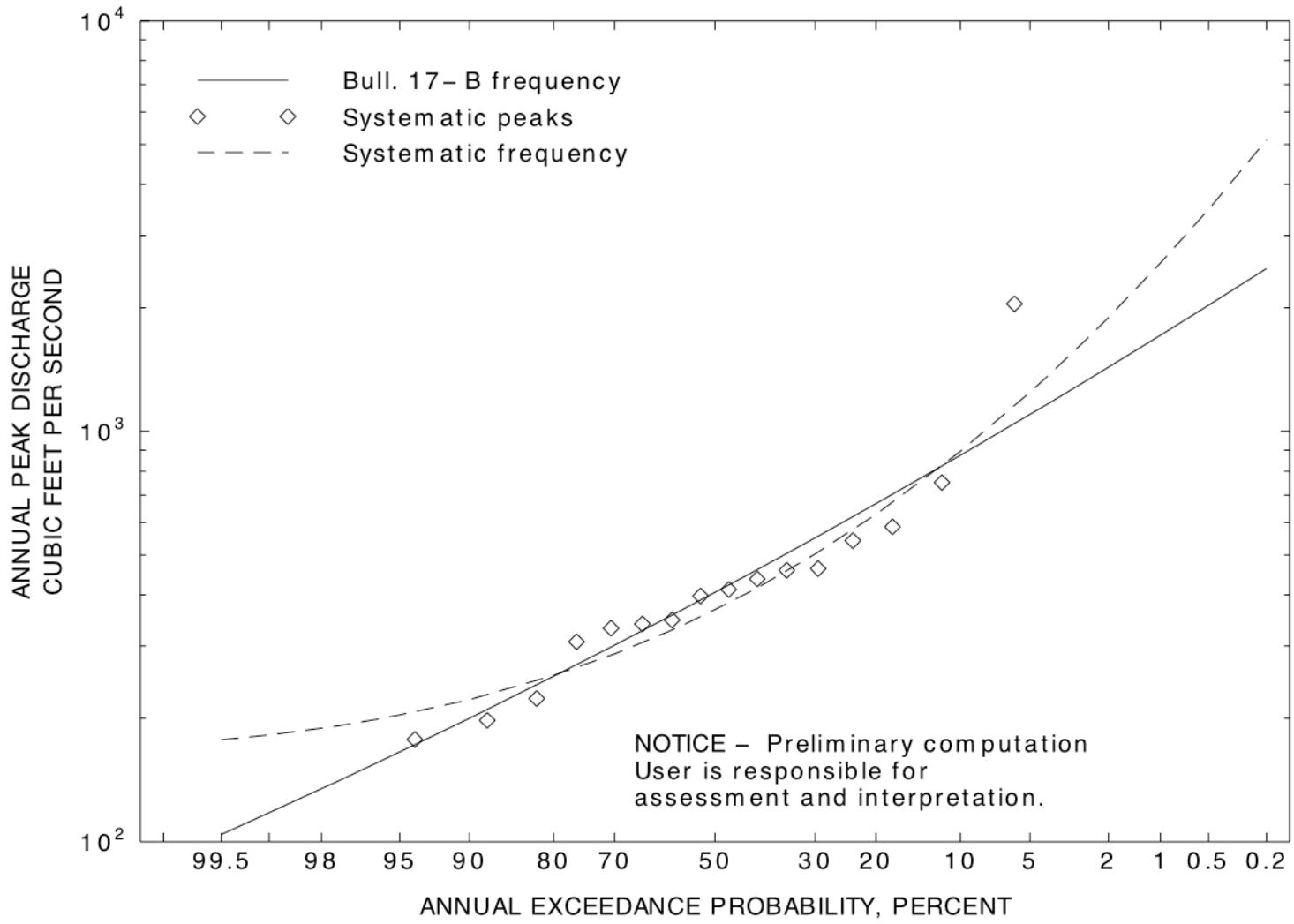
Explanation of peak discharge qualification codes

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
1993	2050.0	0.0588	0.0588
2000	752.0	0.1176	0.1176
1976	587.0	0.1765	0.1765
1994	543.0	0.2353	0.2353
1997	464.0	0.2941	0.2941
1996	460.0	0.3529	0.3529
1980	438.0	0.4118	0.4118
1998	413.0	0.4706	0.4706
1978	398.0	0.5294	0.5294
1990	348.0	0.5882	0.5882
1981	340.0	0.6471	0.6471
1991	332.0	0.7059	0.7059
1999	308.0	0.7647	0.7647
1979	224.0	0.8235	0.8235
1977	198.0	0.8824	0.8824
1995	178.0	0.9412	0.9412



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