

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

Station - 040851385 FOX RIVER AT OIL TANK DEPOT AT GREEN BAY, 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	=	12
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	12
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.281
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	29893.5
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		7681.1
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00008	0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 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	4.1805	0.1383	1.444
BULL.17B ESTIMATE	0.0	1.0000	4.1805	0.1383	0.220

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	7127.0	9953.0	6036.0	4553.0	9027.0
0.9900	7609.0	10050.0	6677.0	5020.0	9507.0
0.9500	9163.0	10500.0	8608.0	6597.0	11050.0
0.9000	10160.0	10910.0	9769.0	7653.0	12060.0
0.8000	11560.0	11640.0	11330.0	9161.0	13520.0
0.5000	14980.0	14080.0	14980.0	12720.0	17570.0
0.2000	19730.0	18930.0	20210.0	16880.0	24830.0
0.1000	22940.0	23180.0	24090.0	19290.0	30650.0
0.0400	27080.0	29910.0	29730.0	22140.0	38990.0
0.0200	30230.0	36050.0	34700.0	24190.0	45880.0
0.0100	33450.0	43300.0	40500.0	26190.0	53330.0
0.0050	36740.0	51850.0	47420.0	28190.0	61400.0
0.0020	41260.0	65610.0	--	30830.0	73130.0
0.6667	13094.8	( 1.50-year flood )			
0.4292	15843.9	( 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
1989	16800.0		1995	11900.0	
1990	33800.0		1996	16700.0	
1991	13700.0		1997	14800.0	
1992	14300.0		1998	16300.0	
1993	20000.0		1999	11500.0	
1994	11600.0		2000	10300.0	

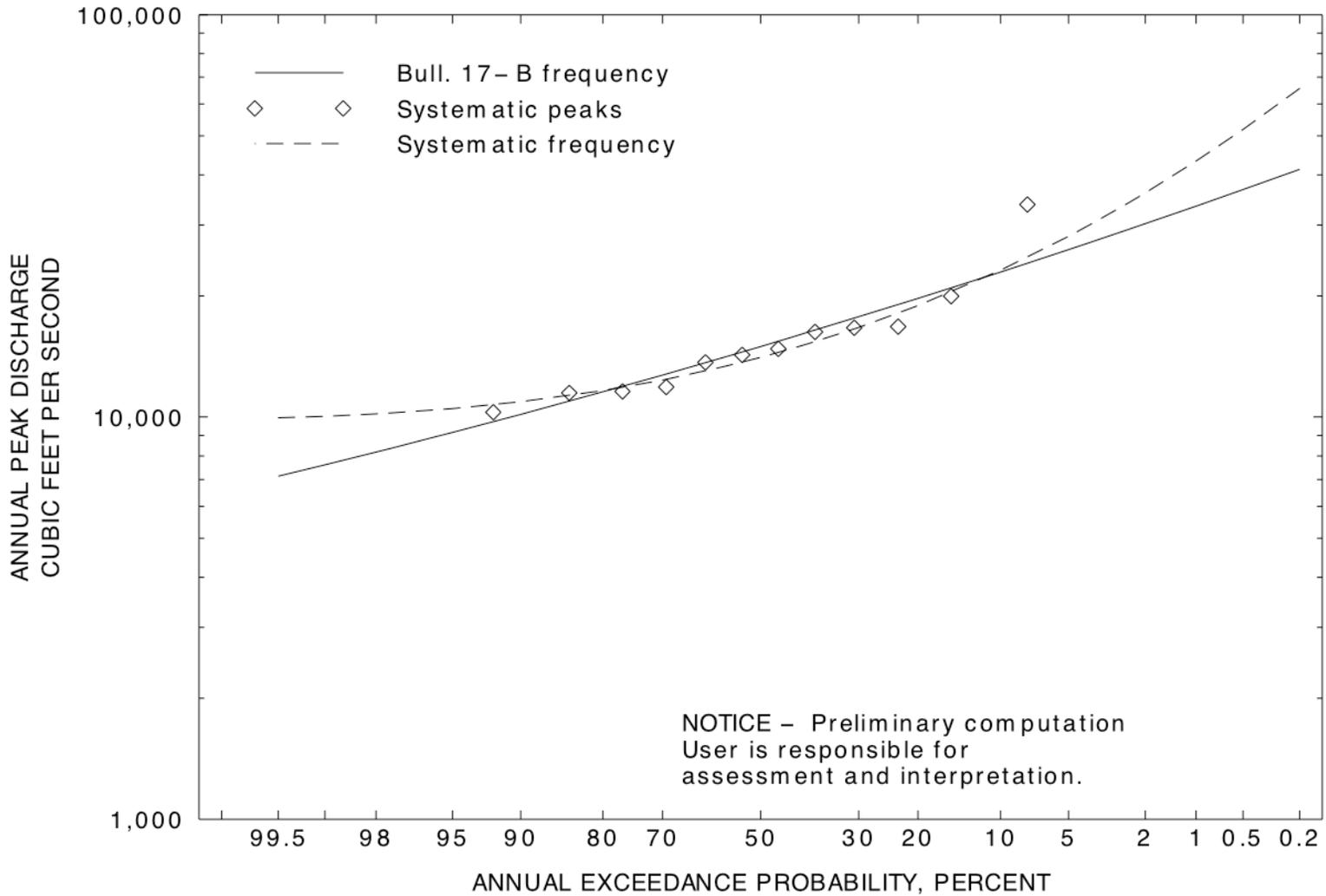
Explanation of peak discharge qualification codes

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
1990	33800.0	0.0769	0.0769
1993	20000.0	0.1538	0.1538
1989	16800.0	0.2308	0.2308
1996	16700.0	0.3077	0.3077
1998	16300.0	0.3846	0.3846
1997	14800.0	0.4615	0.4615
1992	14300.0	0.5385	0.5385
1991	13700.0	0.6154	0.6154
1995	11900.0	0.6923	0.6923
1994	11600.0	0.7692	0.7692
1999	11500.0	0.8462	0.8462
2000	10300.0	0.9231	0.9231



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