

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

Station - 05414213 LITTLE PLATTE RIVER NEAR PLATTEVILLE, WI  
 2002 MAR 13 09:03:16

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	=	-0.400
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.		405.2
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	8988.6
**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	3.2807	0.3154	0.105
BULL.17B ESTIMATE	0.0	1.0000	3.2807	0.3154	-0.184

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	259.4	315.7	147.5	81.4	472.2
0.9900	319.6	372.7	209.0	111.3	555.8
0.9500	557.1	590.8	464.7	253.4	867.0
0.9000	742.7	758.9	665.8	383.9	1102.0
0.8000	1043.0	1032.0	988.9	617.1	1489.0
0.5000	1951.0	1884.0	1951.0	1354.0	2829.0
0.2000	3536.0	3502.0	3706.0	2475.0	6006.0
0.1000	4766.0	4878.0	5221.0	3224.0	9108.0
0.0400	6492.0	6982.0	7660.0	4177.0	14220.0
0.0200	7887.0	8830.0	9950.0	4892.0	18930.0
0.0100	9365.0	10930.0	12750.0	5612.0	24420.0
0.0050	10930.0	13310.0	16220.0	6341.0	30740.0
0.0020	13130.0	16930.0	--	7322.0	40470.0
0.6667	1421.9	( 1.50-year flood )			
0.4292	2221.6	( 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
1988	426.0		1995	1420.0	
1989	1660.0		1996	2100.0	
1991	2190.0		1997	1900.0	
1992	960.0		1998	1550.0	
1993	3360.0		1999	2460.0	
1994	2350.0		2000	9200.0	

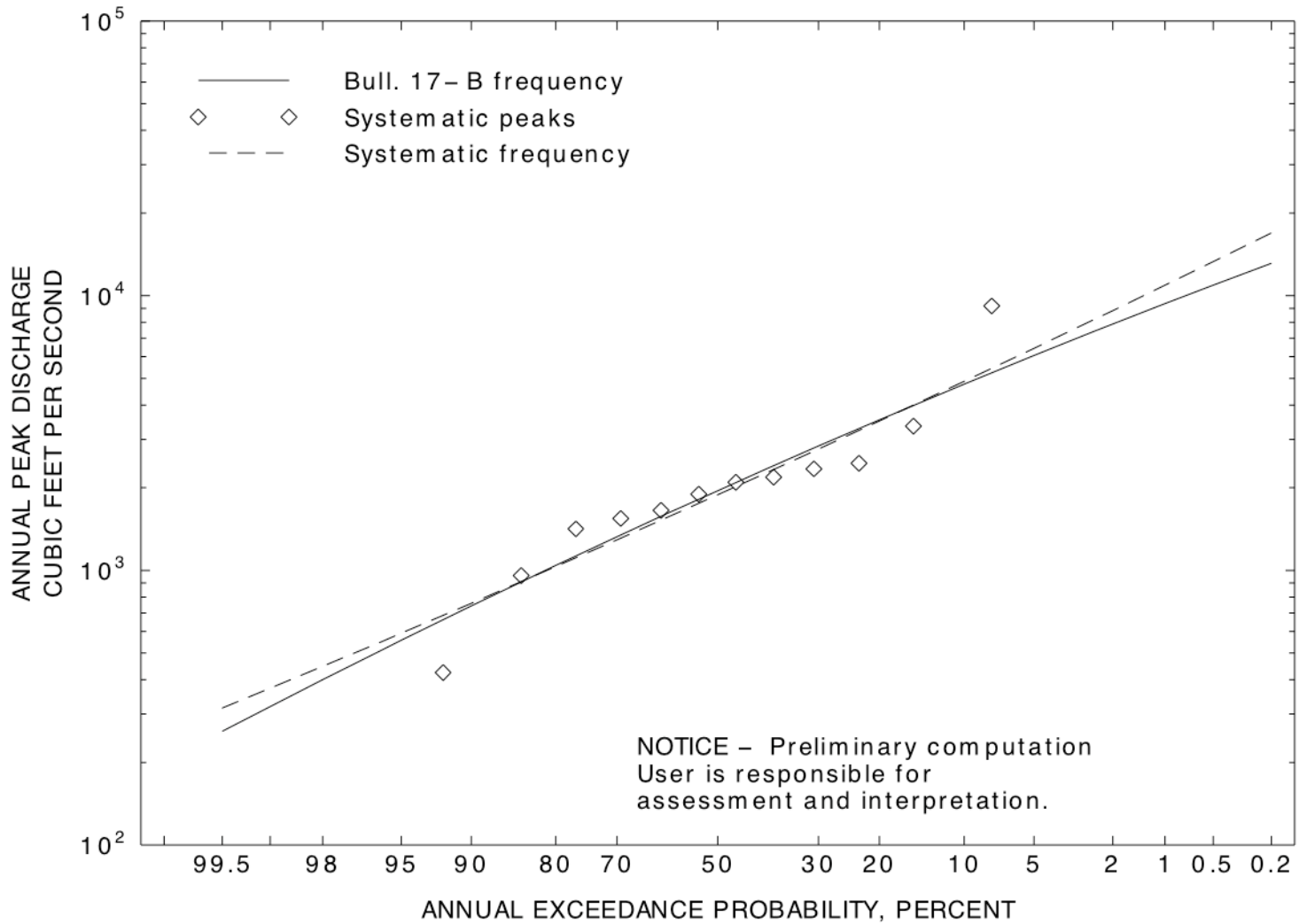
Explanation of peak discharge qualification codes

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
2000	9200.0	0.0769	0.0769
1993	3360.0	0.1538	0.1538
1999	2460.0	0.2308	0.2308
1994	2350.0	0.3077	0.3077
1991	2190.0	0.3846	0.3846
1996	2100.0	0.4615	0.4615
1997	1900.0	0.5385	0.5385
1989	1660.0	0.6154	0.6154
1998	1550.0	0.6923	0.6923
1995	1420.0	0.7692	0.7692
1992	960.0	0.8462	0.8462
1988	426.0	0.9231	0.9231



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