

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

Station - 05400500 PLOVER RIVER NEAR STEVENS POINT, WI  
2002 MAR 13 09:03:06

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	14
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	14
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.299
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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1814.5
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	301.9

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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	2.8693	0.1760	0.505
BULL.17B ESTIMATE	0.0	1.0000	2.8693	0.1760	0.052

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	265.8	315.5	215.6	155.9	357.0
0.9900	292.8	335.7	249.0	179.2	385.7
0.9500	382.3	404.7	354.9	261.4	479.5
0.9000	441.3	452.2	421.4	318.9	541.5
0.8000	525.7	523.0	513.5	403.4	632.7
0.5000	737.5	715.4	737.5	610.7	889.9
0.2000	1040.0	1027.0	1065.0	864.1	1354.0
0.1000	1247.0	1265.0	1309.0	1015.0	1728.0
0.0400	1515.0	1606.0	1659.0	1197.0	2267.0
0.0200	1720.0	1890.0	1959.0	1327.0	2713.0
0.0100	1929.0	2201.0	2303.0	1456.0	3195.0
0.0050	2144.0	2543.0	2701.0	1583.0	3717.0
0.0020	2437.0	3049.0	3337.0	1752.0	4473.0
0.6667	619.9	( 1.50-year flood )			
0.4292	792.6	( 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
1914	1610.0		1945	1020.0	
1915	494.0		1946	781.0	
1916	750.0		1947	446.0	
1917	466.0		1948	680.0	
1918	670.0		1949	473.0	
1919	1300.0		1950	1160.0	
1944	590.0		1951	781.0	

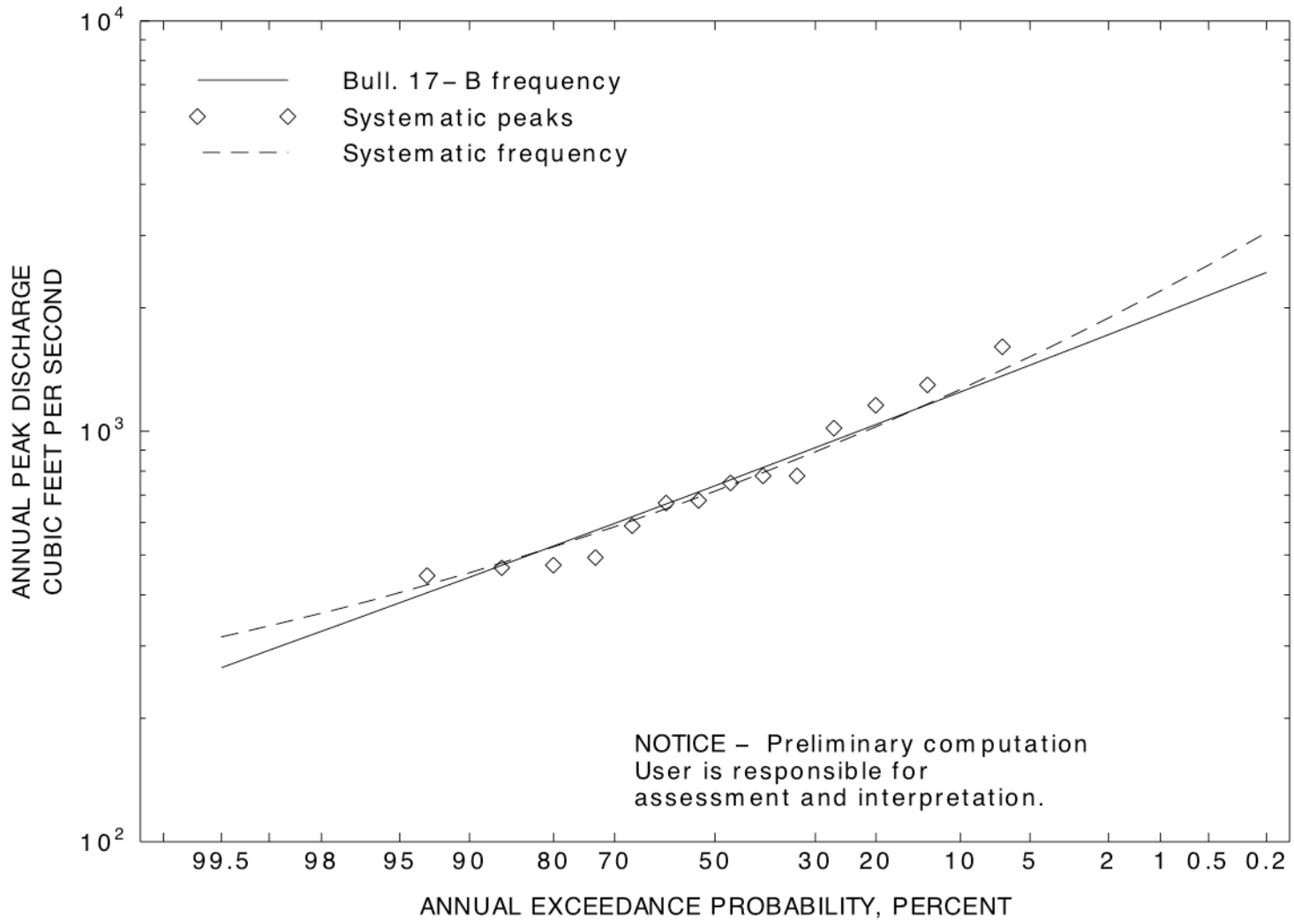
Explanation of peak discharge qualification codes

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
1914	1610.0	0.0667	0.0667
1919	1300.0	0.1333	0.1333
1950	1160.0	0.2000	0.2000
1945	1020.0	0.2667	0.2667
1946	781.0	0.3333	0.3333
1951	781.0	0.4000	0.4000
1916	750.0	0.4667	0.4667
1948	680.0	0.5333	0.5333
1918	670.0	0.6000	0.6000
1944	590.0	0.6667	0.6667
1915	494.0	0.7333	0.7333
1949	473.0	0.8000	0.8000
1917	466.0	0.8667	0.8667
1947	446.0	0.9333	0.9333



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