

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

Station - 04071800 PENSsauKEE RIVER NEAR PULASKI, WI  
 2002 MAR 13 09:02:31

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	39
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	39
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.253
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	425.0
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. \*\*\*\*\*

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	6	425.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		288.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2701.5

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	425.0	0.8462	2.8975	0.2126	-0.166
BULL.17B ESTIMATE	425.0	0.8462	2.8975	0.2126	-0.194

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
0.8000	525.9	525.5	520.8	444.3	604.0
0.5000	802.4	800.6	802.4	704.0	915.6
0.2000	1197.0	1197.0	1208.0	1042.0	1419.0
0.1000	1463.0	1465.0	1489.0	1252.0	1789.0
0.0400	1800.0	1809.0	1856.0	1507.0	2284.0
0.0200	2050.0	2066.0	2139.0	1690.0	2668.0
0.0100	2300.0	2323.0	2431.0	1869.0	3062.0
0.0050	2549.0	2582.0	2733.0	2044.0	3467.0
0.0020	2882.0	2930.0	3153.0	2273.0	4021.0
0.6667	648.2	( 1.50-year flood )			
0.4292	875.8	( 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
1961	490.0		1981	1060.0	
1962	500.0		1982	1060.0	
1963	785.0		1983	735.0	
1964	290.0		1984	600.0	
1965	1100.0		1985	1210.0	
1966	520.0		1986	1300.0	
1967	1600.0		1987	1400.0	
1968	595.0		1988	420.0	
1969	1020.0		1989	1340.0	
1970	610.0		1990	475.0	
1971	1330.0		1991	610.0	
1972	620.0		1992	715.0	
1973	1700.0		1993	1170.0	
1974	440.0		1995	330.0	
1975	690.0		1996	1810.0	
1976	1540.0		1997	910.0	
1977	190.0	L	1998	425.0	L
1978	840.0		1999	419.0	L
1979	1040.0		2000	509.0	
1980	1480.0				

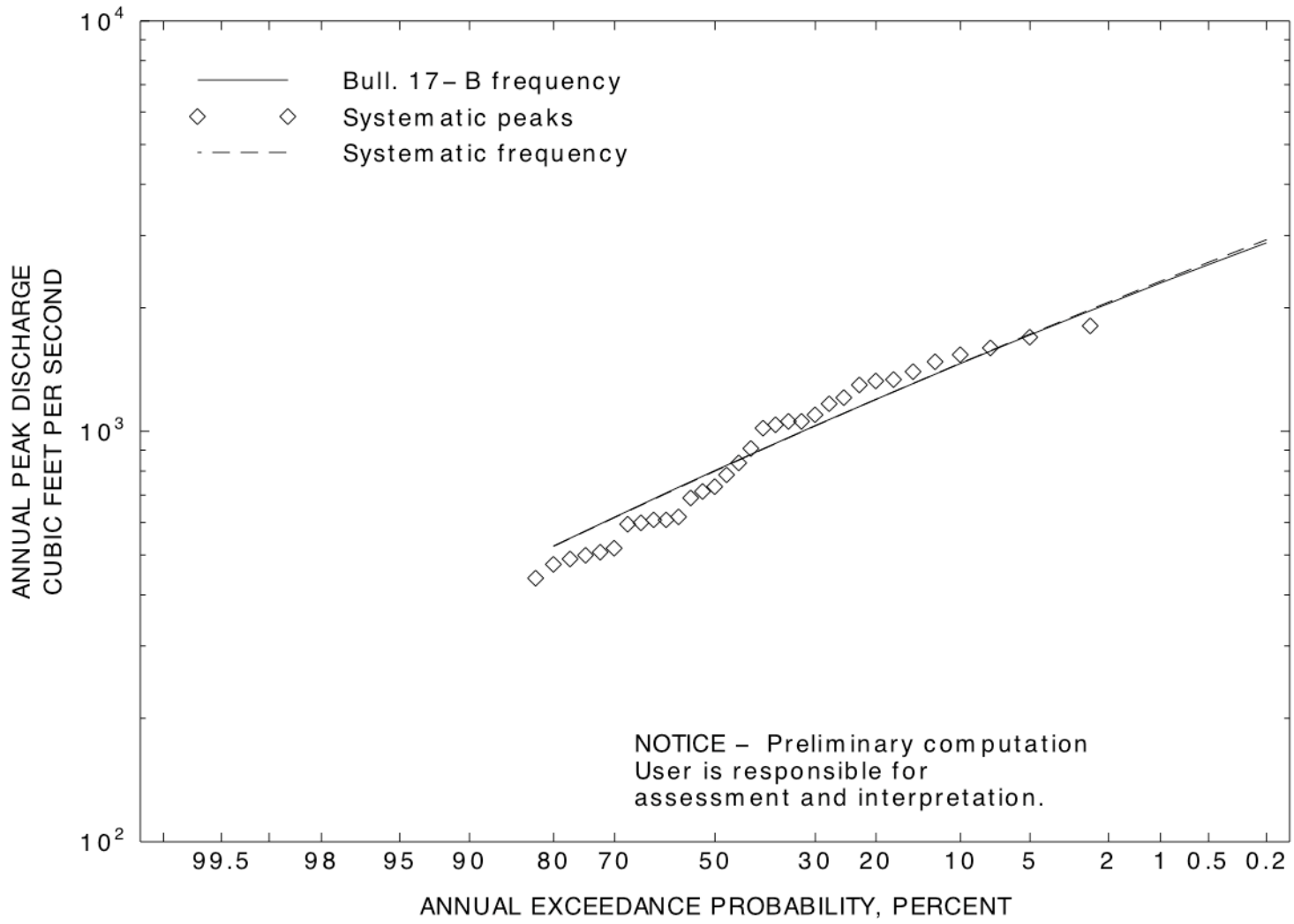
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	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
1996	1810.0	0.0250	0.0250
1973	1700.0	0.0500	0.0500
1967	1600.0	0.0750	0.0750
1976	1540.0	0.1000	0.1000
1980	1480.0	0.1250	0.1250
1987	1400.0	0.1500	0.1500
1989	1340.0	0.1750	0.1750
1971	1330.0	0.2000	0.2000
1986	1300.0	0.2250	0.2250
1985	1210.0	0.2500	0.2500
1993	1170.0	0.2750	0.2750
1965	1100.0	0.3000	0.3000
1981	1060.0	0.3250	0.3250
1982	1060.0	0.3500	0.3500
1979	1040.0	0.3750	0.3750
1969	1020.0	0.4000	0.4000
1997	910.0	0.4250	0.4250
1978	840.0	0.4500	0.4500
1963	785.0	0.4750	0.4750
1983	735.0	0.5000	0.5000
1992	715.0	0.5250	0.5250
1975	690.0	0.5500	0.5500
1972	620.0	0.5750	0.5750
1970	610.0	0.6000	0.6000
1991	610.0	0.6250	0.6250
1984	600.0	0.6500	0.6500
1968	595.0	0.6750	0.6750
1966	520.0	0.7000	0.7000
2000	509.0	0.7250	0.7250
1962	500.0	0.7500	0.7500
1961	490.0	0.7750	0.7750
1990	475.0	0.8000	0.8000
1974	440.0	0.8250	0.8250
1998	425.0	--	--
1988	420.0	--	--
1999	419.0	--	--
1995	330.0	--	--
1964	290.0	--	--
1977	190.0	--	--



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