

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

Station - 04071858 PENSsauKEE RIVER NEAR PENSsauKEE, WI
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I N P U T D A T A S U M M A R Y

Number of peaks in record	=	24
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	24
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.244
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.	299.1
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	7901.3

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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	3.1868	0.2882	-0.454
BULL.17B ESTIMATE	0.0	1.0000	3.1868	0.2882	-0.359

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	222.7	210.2	172.1	114.1	341.5
0.9900	276.3	264.3	227.3	150.8	408.5
0.9500	484.4	477.1	445.4	309.4	656.3
0.9000	642.9	640.2	610.9	441.5	839.5
0.8000	892.5	896.9	870.7	659.2	1129.0
0.5000	1600.0	1616.0	1600.0	1274.0	2018.0
0.2000	2710.0	2713.0	2762.0	2139.0	3686.0
0.1000	3493.0	3462.0	3621.0	2691.0	5025.0
0.0400	4507.0	4401.0	4796.0	3363.0	6910.0
0.0200	5269.0	5087.0	5729.0	3846.0	8421.0
0.0100	6030.0	5754.0	6715.0	4313.0	10000.0
0.0050	6791.0	6406.0	7754.0	4768.0	11640.0
0.0020	7797.0	7246.0	9219.0	5354.0	13910.0
0.6667	1194.8	(1.50-year flood)			
0.4292	1801.2	(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
1973	3880.0		1985	820.0	
1974	853.0		1986	3470.0	
1975	1620.0		1987	625.0	
1976	2320.0		1988	502.0	
1977	382.0		1989	2700.0	
1978	1770.0		1990	2100.0	
1979	4310.0		1991	1400.0	
1980	3110.0		1992	1810.0	
1981	1430.0		1993	1840.0	
1982	1800.0		1994	1700.0	
1983	1000.0		1995	595.0	
1984	1410.0		1996	3110.0	

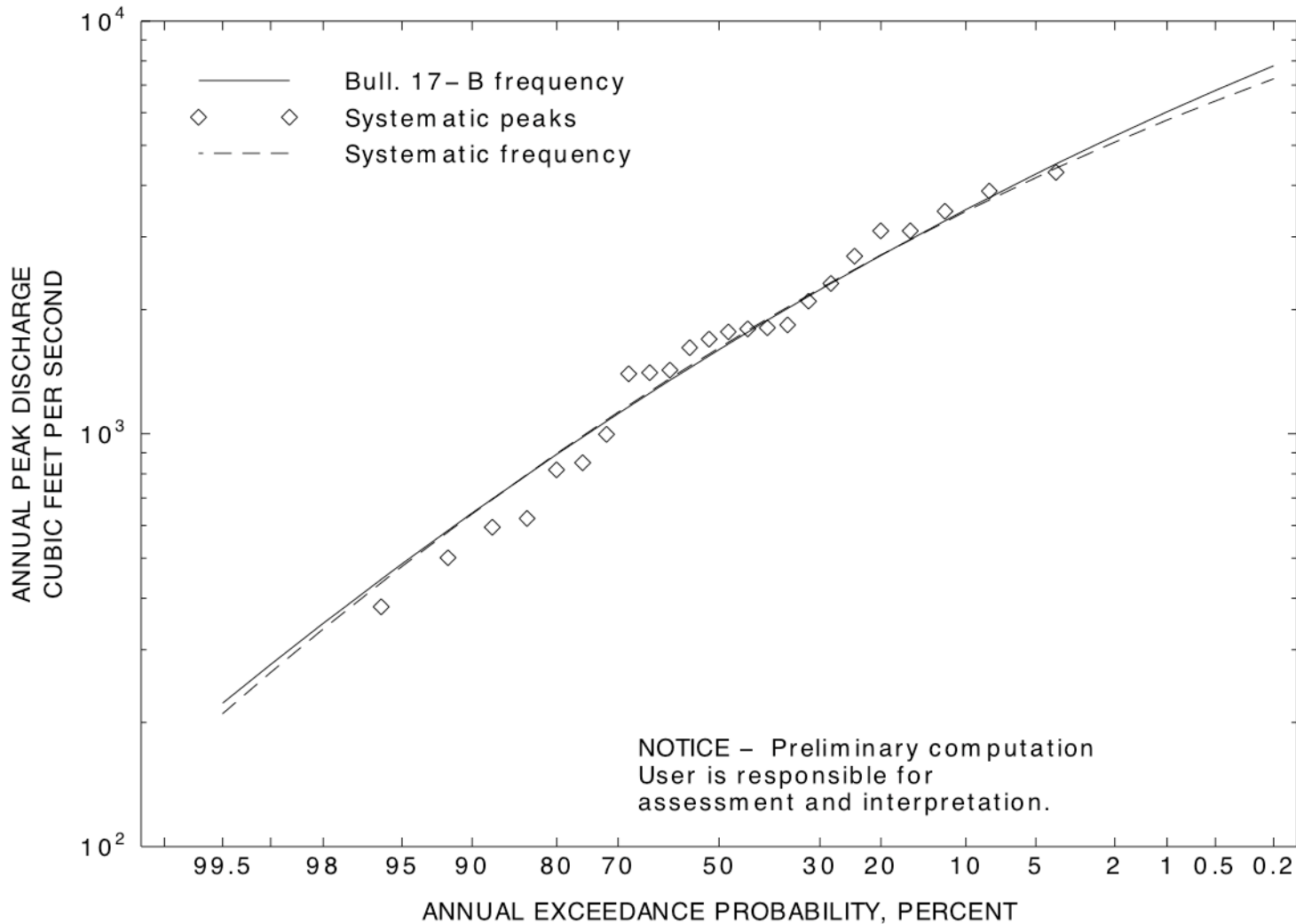
Explanation of peak discharge qualification codes

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
1979	4310.0	0.0400	0.0400
1973	3880.0	0.0800	0.0800
1986	3470.0	0.1200	0.1200
1980	3110.0	0.1600	0.1600
1996	3110.0	0.2000	0.2000
1989	2700.0	0.2400	0.2400
1976	2320.0	0.2800	0.2800
1990	2100.0	0.3200	0.3200
1993	1840.0	0.3600	0.3600
1992	1810.0	0.4000	0.4000
1982	1800.0	0.4400	0.4400
1978	1770.0	0.4800	0.4800
1994	1700.0	0.5200	0.5200
1975	1620.0	0.5600	0.5600
1981	1430.0	0.6000	0.6000
1984	1410.0	0.6400	0.6400
1991	1400.0	0.6800	0.6800
1983	1000.0	0.7200	0.7200
1974	853.0	0.7600	0.7600
1985	820.0	0.8000	0.8000
1987	625.0	0.8400	0.8400
1995	595.0	0.8800	0.8800
1988	502.0	0.9200	0.9200
1977	382.0	0.9600	0.9600



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