

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

Station - 05364100 SETH CREEK NEAR CADOTT, WI
2002 MAR 13 09:02:52

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	=	-0.310
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1 36.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1284.3

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE	LOGARITHMIC		
	EXCEEDANCE DISCHARGE	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.3652	0.3006
BULL.17B ESTIMATE	36.5	0.9744	2.3772	0.2760

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY'	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
				LOWER	UPPER
0.9950	--	25.6	--	--	--
0.9900	--	33.5	--	--	--
0.9500	79.0	66.3	75.3	57.6	99.9
0.9000	103.5	92.3	100.5	79.3	127.1
0.8000	141.5	133.8	139.5	113.8	169.3
0.5000	247.2	250.0	247.2	208.7	293.6
0.2000	410.1	419.7	414.7	342.3	511.5
0.1000	523.9	528.7	535.0	428.6	678.7
0.0400	670.4	657.6	695.0	534.5	907.4
0.0200	779.9	746.1	818.7	611.0	1087.0
0.0100	889.1	827.9	946.2	685.3	1271.0
0.0050	998.2	903.8	1077.0	758.1	1461.0
0.0020	1142.0	996.1	1259.0	852.2	1719.0
0.6667	186.9	(1.50-year flood)			
0.4292	276.9	(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
1962	185.0		1982	284.0	
1963	300.0		1983	300.0	
1964	43.0		1984	212.0	
1965	300.0		1985	300.0	
1966	192.0		1986	785.0	
1967	355.0		1987	215.0	
1968	308.0		1988	145.0	
1969	305.0		1989	346.0	
1970	115.0		1990	688.0	
1971	105.0		1991	208.0	
1972	85.0		1992	345.0	
1973	355.0		1993	532.0	
1974	152.0		1994	180.0	
1975	310.0		1995	250.0	
1976	198.0		1996	34.0	
1977	196.0		1997	89.0	
1978	295.0		1998	375.0	
1979	195.0		1999	119.0	
1980	690.0		2000	774.0	
1981	255.0				

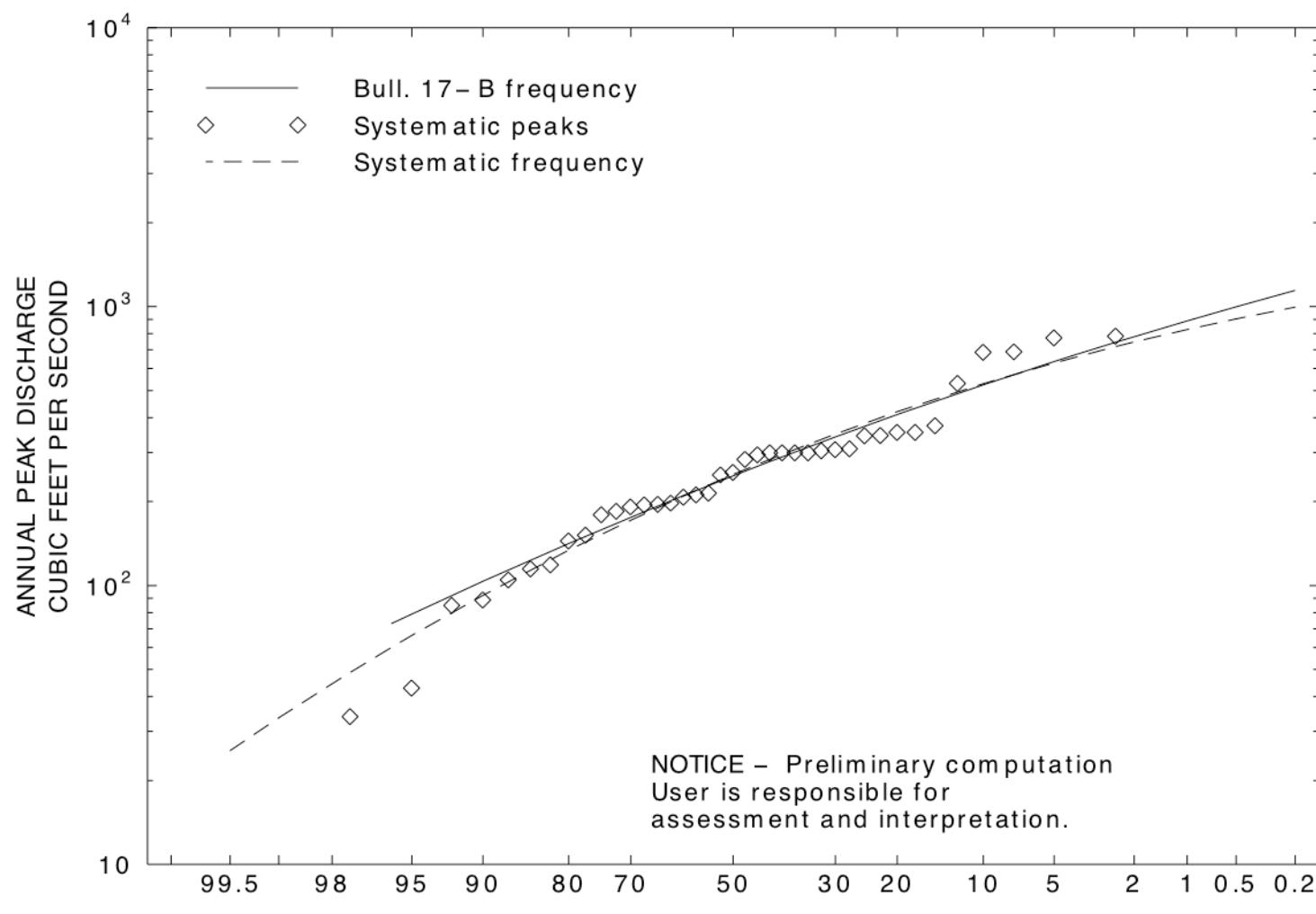
Explanation of peak discharge qualification codes

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
1986	785.0	0.0250	0.0250
2000	774.0	0.0500	0.0500
1980	690.0	0.0750	0.0750
1990	688.0	0.1000	0.1000
1993	532.0	0.1250	0.1250
1998	375.0	0.1500	0.1500
1967	355.0	0.1750	0.1750
1973	355.0	0.2000	0.2000
1989	346.0	0.2250	0.2250
1992	345.0	0.2500	0.2500
1975	310.0	0.2750	0.2750
1968	308.0	0.3000	0.3000
1969	305.0	0.3250	0.3250
1963	300.0	0.3500	0.3500
1965	300.0	0.3750	0.3750
1983	300.0	0.4000	0.4000
1985	300.0	0.4250	0.4250
1978	295.0	0.4500	0.4500
1982	284.0	0.4750	0.4750
1981	255.0	0.5000	0.5000
1995	250.0	0.5250	0.5250
1987	215.0	0.5500	0.5500
1984	212.0	0.5750	0.5750
1991	208.0	0.6000	0.6000
1976	198.0	0.6250	0.6250
1977	196.0	0.6500	0.6500
1979	195.0	0.6750	0.6750
1966	192.0	0.7000	0.7000
1962	185.0	0.7250	0.7250
1994	180.0	0.7500	0.7500
1974	152.0	0.7750	0.7750
1988	145.0	0.8000	0.8000
1999	119.0	0.8250	0.8250
1970	115.0	0.8500	0.8500
1971	105.0	0.8750	0.8750
1997	89.0	0.9000	0.9000
1972	85.0	0.9250	0.9250
1964	43.0	0.9500	0.9500
1996	34.0	0.9750	0.9750



ANNUAL EXCEEDANCE PROBABILITY, PERCENT
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