

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

Station - 04067500 MENOMINEE RIVER NEAR MC ALLISTER, WI  
2002 MAR 13 09:02:28

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	49
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	49
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.183
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.	4849.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	41574.2

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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	4.1522	0.1691	0.167
BULL.17B ESTIMATE	0.0	1.0000	4.1522	0.1691	0.070

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	5345.0	5538.0	5089.0	4285.0	6299.0
0.9900	5857.0	6024.0	5635.0	4773.0	6827.0
0.9500	7544.0	7629.0	7404.0	6417.0	8548.0
0.9000	8648.0	8687.0	8546.0	7513.0	9672.0
0.8000	10220.0	10200.0	10160.0	9079.0	11290.0
0.5000	14130.0	14050.0	14130.0	12880.0	15510.0
0.2000	19680.0	19630.0	19800.0	17820.0	22140.0
0.1000	23450.0	23530.0	23750.0	20960.0	27010.0
0.0400	28330.0	28690.0	28990.0	24850.0	33620.0
0.0200	32040.0	32690.0	33110.0	27720.0	38830.0
0.0100	35830.0	36830.0	37420.0	30590.0	44270.0
0.0050	39700.0	41130.0	41970.0	33470.0	49980.0
0.0020	45000.0	47120.0	48440.0	37340.0	57970.0
0.6667	11966.0	( 1.50-year flood )			
0.4292	15147.0	( 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
1945	11700.0		1971	21500.0	
1946	12800.0		1972	23600.0	
1947	11400.0		1973	21600.0	
1948	9240.0		1974	13000.0	
1949	10800.0		1975	22200.0	
1950	21600.0		1976	18000.0	
1951	25700.0		1978	12200.0	
1952	19300.0		1980	12500.0	
1953	24200.0		1981	19800.0	
1954	21900.0		1982	12700.0	
1955	16700.0		1983	14600.0	
1956	10800.0		1984	9550.0	
1957	11000.0		1985	17800.0	
1958	12300.0		1986	22300.0	
1959	11800.0		1987	8740.0	
1960	32500.0		1988	9800.0	
1961	13300.0		1989	9850.0	
1962	13000.0		1990	10000.0	
1963	8700.0		1993	12700.0	
1964	6900.0		1994	7420.0	
1965	27000.0		1995	8980.0	
1966	12400.0		1998	15300.0	
1967	22500.0		1999	11000.0	
1969	16500.0		2000	7300.0	
1970	23300.0				

Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
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

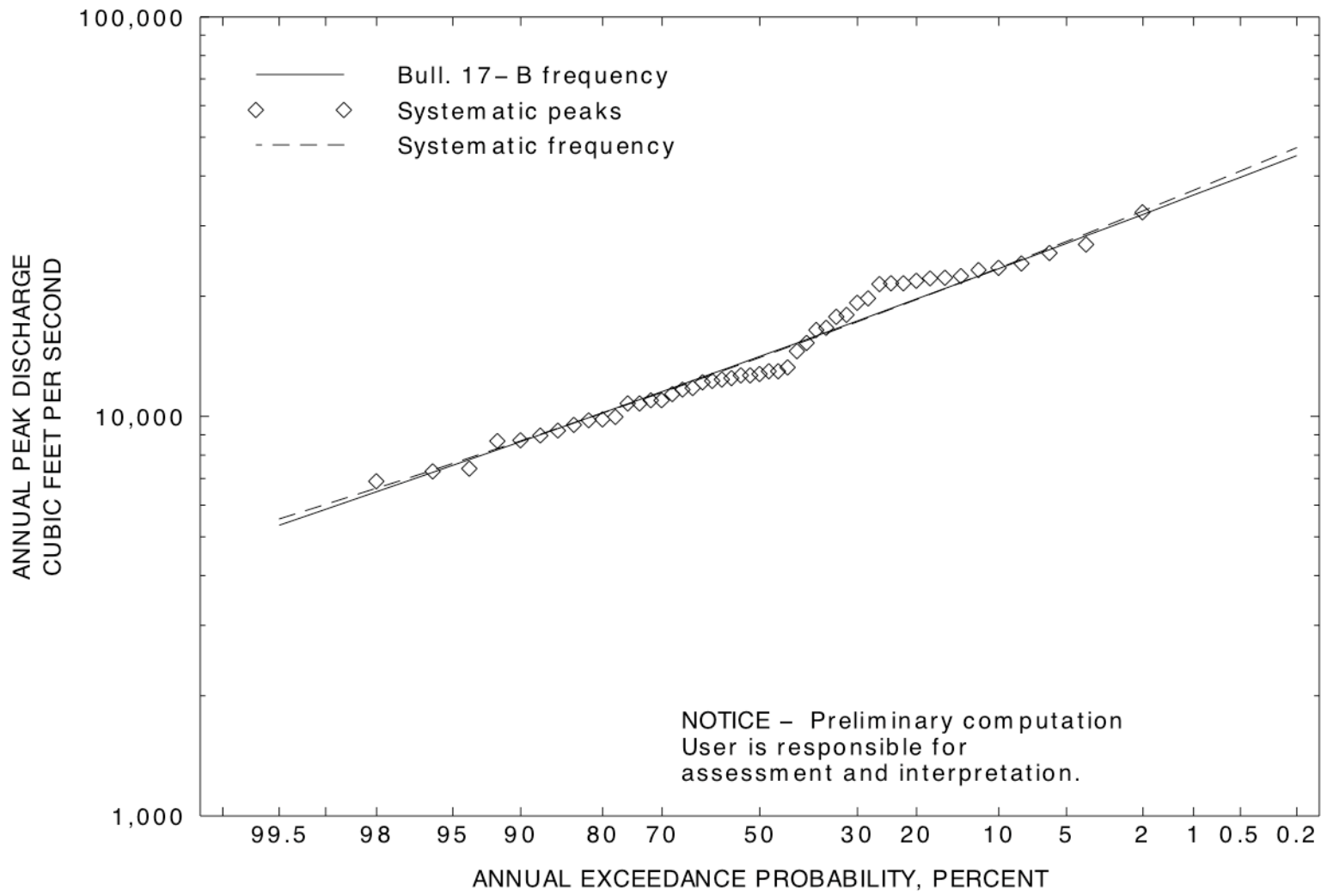
WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1960	32500.0	0.0200	0.0200
1965	27000.0	0.0400	0.0400
1951	25700.0	0.0600	0.0600
1953	24200.0	0.0800	0.0800
1972	23600.0	0.1000	0.1000
1970	23300.0	0.1200	0.1200
1967	22500.0	0.1400	0.1400
1986	22300.0	0.1600	0.1600
1975	22200.0	0.1800	0.1800
1954	21900.0	0.2000	0.2000
1950	21600.0	0.2200	0.2200
1973	21600.0	0.2400	0.2400
1971	21500.0	0.2600	0.2600
1981	19800.0	0.2800	0.2800
1952	19300.0	0.3000	0.3000
1976	18000.0	0.3200	0.3200
1985	17800.0	0.3400	0.3400
1955	16700.0	0.3600	0.3600
1969	16500.0	0.3800	0.3800
1998	15300.0	0.4000	0.4000
1983	14600.0	0.4200	0.4200
1961	13300.0	0.4400	0.4400
1962	13000.0	0.4600	0.4600
1974	13000.0	0.4800	0.4800
1946	12800.0	0.5000	0.5000
1982	12700.0	0.5200	0.5200
1993	12700.0	0.5400	0.5400
1980	12500.0	0.5600	0.5600
1966	12400.0	0.5800	0.5800
1958	12300.0	0.6000	0.6000
1978	12200.0	0.6200	0.6200
1959	11800.0	0.6400	0.6400
1945	11700.0	0.6600	0.6600
1947	11400.0	0.6800	0.6800
1957	11000.0	0.7000	0.7000
1999	11000.0	0.7200	0.7200
1949	10800.0	0.7400	0.7400
1956	10800.0	0.7600	0.7600
1990	10000.0	0.7800	0.7800
1989	9850.0	0.8000	0.8000
1988	9800.0	0.8200	0.8200
1984	9550.0	0.8400	0.8400
1948	9240.0	0.8600	0.8600
1995	8980.0	0.8800	0.8800
1987	8740.0	0.9000	0.9000
1963	8700.0	0.9200	0.9200
1994	7420.0	0.9400	0.9400
2000	7300.0	0.9600	0.9600

1964

6900.0

0.9800

0.9800



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