

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

Station - 05426000 CRAWFISH RIVER AT MILFORD, WI  
 2002 MAR 13 09:03:18

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	69
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	69
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.396
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	501.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		8546.9

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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	3.3357	0.2201	-0.798
BULL.17B ESTIMATE	501.4	0.9855	3.3423	0.2049	-0.476

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	--	404.8	--	--	--
0.9900	--	501.0	--	--	--
0.9500	954.5	853.3	934.4	805.5	1093.0
0.9000	1179.0	1101.0	1164.0	1022.0	1326.0
0.8000	1500.0	1459.0	1491.0	1335.0	1661.0
0.5000	2283.0	2316.0	2283.0	2079.0	2511.0
0.2000	3294.0	3343.0	3309.0	2973.0	3711.0
0.1000	3911.0	3912.0	3943.0	3490.0	4486.0
0.0400	4628.0	4515.0	4691.0	4073.0	5419.0
0.0200	5120.0	4892.0	5211.0	4465.0	6075.0
0.0100	5578.0	5217.0	5703.0	4825.0	6697.0
0.0050	6009.0	5500.0	6171.0	5160.0	7290.0
0.0020	6543.0	5821.0	6762.0	5570.0	8034.0
0.6667	1853.4	( 1.50-year flood )			
0.4292	2483.7	( 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
1932	1370.0		1967	1380.0	
1933	2650.0		1968	1290.0	
1934	1140.0		1969	1810.0	
1935	2720.0		1970	573.0	
1936	2240.0		1971	2560.0	
1937	3110.0		1972	2270.0	
1938	3370.0		1973	3440.0	
1939	1720.0		1974	3210.0	
1940	1840.0		1975	4830.0	
1941	2560.0		1976	2420.0	
1942	1180.0		1977	580.0	
1943	3780.0		1978	2020.0	
1944	2640.0		1979	4510.0	
1945	1690.0		1980	2510.0	
1946	4260.0		1981	1790.0	
1947	1810.0		1982	2380.0	
1948	3850.0		1983	1730.0	
1949	1870.0		1984	1890.0	
1950	3310.0		1985	3120.0	
1951	2970.0		1986	3740.0	
1952	3940.0		1987	3530.0	
1953	1870.0		1988	1270.0	
1954	2070.0		1989	1610.0	
1955	1520.0		1990	2740.0	
1956	1700.0		1991	1950.0	
1957	1260.0		1992	1570.0	
1958	915.0		1993	4140.0	
1959	6140.0		1994	2580.0	
1960	3680.0		1995	1290.0	
1961	1690.0		1996	3210.0	
1962	3990.0		1997	1700.0	
1963	1720.0		1998	2410.0	
1964	410.0		1999	2320.0	
1965	1890.0		2000	3510.0	
1966	2560.0				

Explanation of peak discharge qualification codes

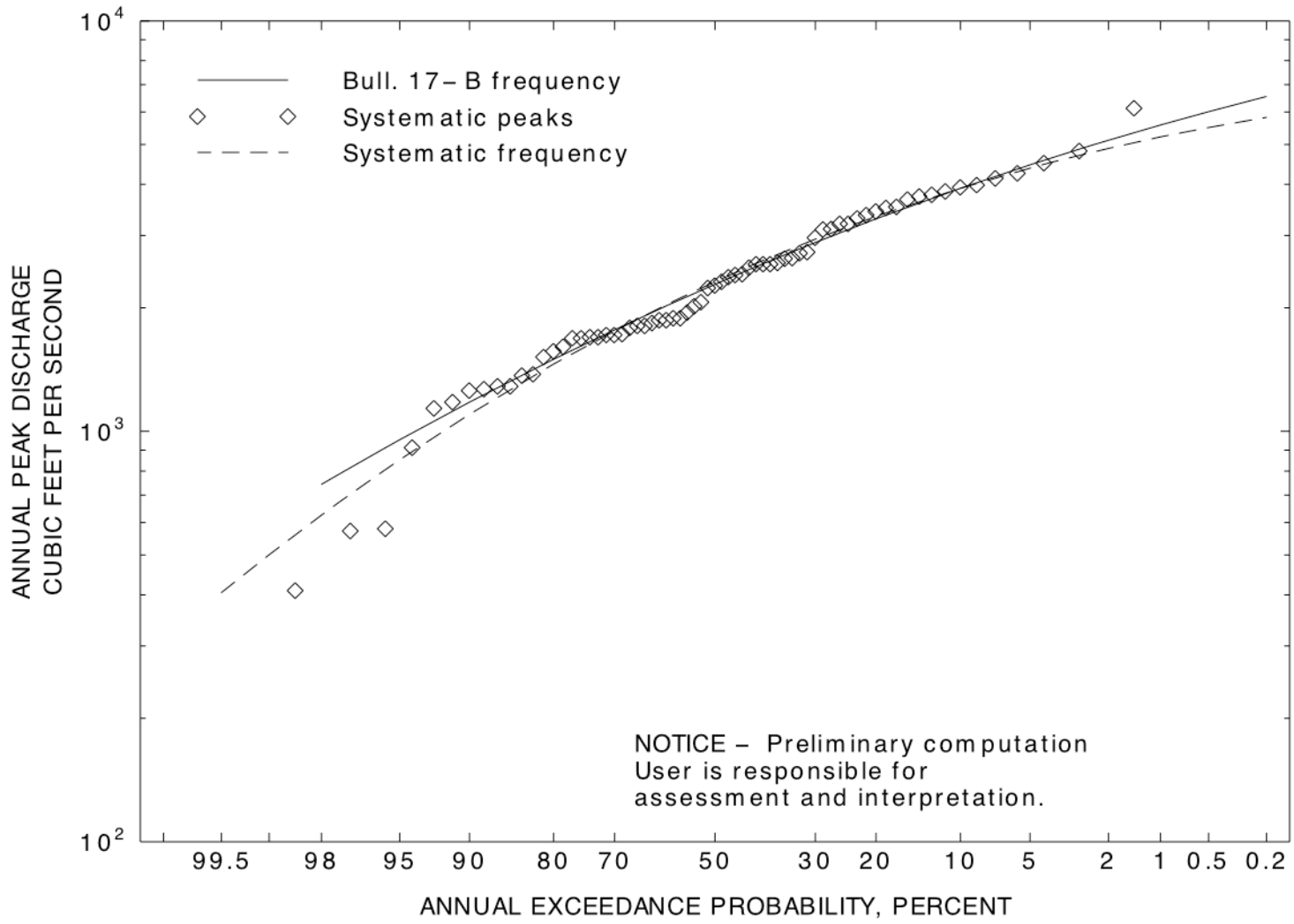
PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1959	6140.0	0.0143	0.0143
1975	4830.0	0.0286	0.0286
1979	4510.0	0.0429	0.0429
1946	4260.0	0.0571	0.0571
1993	4140.0	0.0714	0.0714
1962	3990.0	0.0857	0.0857
1952	3940.0	0.1000	0.1000
1948	3850.0	0.1143	0.1143
1943	3780.0	0.1286	0.1286
1986	3740.0	0.1429	0.1429
1960	3680.0	0.1571	0.1571
1987	3530.0	0.1714	0.1714
2000	3510.0	0.1857	0.1857
1973	3440.0	0.2000	0.2000
1938	3370.0	0.2143	0.2143
1950	3310.0	0.2286	0.2286
1974	3210.0	0.2429	0.2429
1996	3210.0	0.2571	0.2571
1985	3120.0	0.2714	0.2714
1937	3110.0	0.2857	0.2857
1951	2970.0	0.3000	0.3000
1990	2740.0	0.3143	0.3143
1935	2720.0	0.3286	0.3286
1933	2650.0	0.3429	0.3429
1944	2640.0	0.3571	0.3571
1994	2580.0	0.3714	0.3714
1941	2560.0	0.3857	0.3857
1966	2560.0	0.4000	0.4000
1971	2560.0	0.4143	0.4143
1980	2510.0	0.4286	0.4286
1976	2420.0	0.4429	0.4429
1998	2410.0	0.4571	0.4571
1982	2380.0	0.4714	0.4714
1999	2320.0	0.4857	0.4857
1972	2270.0	0.5000	0.5000
1936	2240.0	0.5143	0.5143
1954	2070.0	0.5286	0.5286
1978	2020.0	0.5429	0.5429
1991	1950.0	0.5571	0.5571
1965	1890.0	0.5714	0.5714
1984	1890.0	0.5857	0.5857
1949	1870.0	0.6000	0.6000
1953	1870.0	0.6143	0.6143
1940	1840.0	0.6286	0.6286
1947	1810.0	0.6429	0.6429
1969	1810.0	0.6571	0.6571
1981	1790.0	0.6714	0.6714
1983	1730.0	0.6857	0.6857

1939	1720.0	0.7000	0.7000
1963	1720.0	0.7143	0.7143
1956	1700.0	0.7286	0.7286
1997	1700.0	0.7429	0.7429
1945	1690.0	0.7571	0.7571
1961	1690.0	0.7714	0.7714
1989	1610.0	0.7857	0.7857
1992	1570.0	0.8000	0.8000
1955	1520.0	0.8143	0.8143
1967	1380.0	0.8286	0.8286
1932	1370.0	0.8429	0.8429
1968	1290.0	0.8571	0.8571
1995	1290.0	0.8714	0.8714
1988	1270.0	0.8857	0.8857
1957	1260.0	0.9000	0.9000
1942	1180.0	0.9143	0.9143
1934	1140.0	0.9286	0.9286
1958	915.0	0.9429	0.9429
1977	580.0	0.9571	0.9571
1970	573.0	0.9714	0.9714
1964	410.0	0.9857	0.9857



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