

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

Station - 05362000 JUMP RIVER AT SHELDON, 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	=	85
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	85
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.267
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.		1878.9
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	34874.5

Station - 05362000 JUMP RIVER AT SHELDON, WI  
 2002 MAR 13 09:02:52

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.9082	0.2142	-0.006
BULL.17B ESTIMATE	0.0	1.0000	3.9082	0.2142	-0.051

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	2219.0	2266.0	2133.0	1798.0	2625.0
0.9900	2522.0	2564.0	2446.0	2078.0	2947.0
0.9500	3571.0	3593.0	3519.0	3069.0	4044.0
0.9000	4291.0	4301.0	4252.0	3763.0	4791.0
0.8000	5351.0	5345.0	5328.0	4792.0	5895.0
0.5000	8129.0	8099.0	8129.0	7439.0	8884.0
0.2000	12270.0	12260.0	12330.0	11140.0	13710.0
0.1000	15190.0	15230.0	15320.0	13610.0	17310.0
0.0400	19030.0	19180.0	19330.0	16750.0	22230.0
0.0200	21990.0	22260.0	22470.0	19120.0	26140.0
0.0100	25030.0	25440.0	25750.0	21500.0	30240.0
0.0050	28160.0	28760.0	29190.0	23920.0	34540.0
0.0020	32470.0	33350.0	34020.0	27200.0	40570.0
0.6667	6569.0	( 1.50-year flood )			
0.4292	8876.2	( 2.33-year flood )			

Station - 05362000 JUMP RIVER AT SHELDON, WI  
2002 MAR 13 09:02:52

I N P U T   D A T A   L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1916	8800.0		1959	6700.0	
1917	4200.0		1960	7300.0	
1918	7800.0		1961	8500.0	
1919	6660.0		1962	5350.0	
1920	15700.0		1963	3800.0	
1921	7800.0		1964	2540.0	
1922	8600.0		1965	11400.0	
1923	13300.0		1966	8700.0	
1924	7660.0		1967	20900.0	
1925	4200.0		1968	13100.0	
1926	7470.0		1969	9330.0	
1927	11500.0		1970	5170.0	
1928	9800.0		1971	12600.0	
1929	7720.0		1972	10700.0	
1930	9260.0		1973	13100.0	
1931	5390.0		1974	6580.0	
1932	10400.0		1975	9250.0	
1933	8220.0		1976	10800.0	
1934	6650.0		1977	3820.0	
1935	10800.0		1978	4920.0	
1936	10800.0		1979	5330.0	
1937	4490.0		1980	5380.0	
1938	11700.0		1981	9120.0	
1939	15200.0		1982	13500.0	
1940	6150.0		1983	10600.0	
1941	46000.0		1984	4990.0	
1942	14900.0		1985	7100.0	
1943	11000.0		1986	14000.0	
1944	6900.0		1987	7370.0	
1945	6920.0		1988	2530.0	
1946	17200.0		1989	3500.0	
1947	7430.0		1990	6430.0	
1948	4250.0		1991	6390.0	
1949	5450.0		1992	10900.0	
1950	12000.0		1993	16400.0	
1951	11900.0		1994	14300.0	
1952	8350.0		1995	7320.0	
1953	7600.0		1996	13500.0	
1954	11100.0		1997	11300.0	
1955	6260.0		1998	8770.0	
1956	8090.0		1999	4950.0	
1957	2000.0		2000	7200.0	
1958	5830.0				

Explanation of peak discharge qualification codes

PEAKFQ   WATSTORE

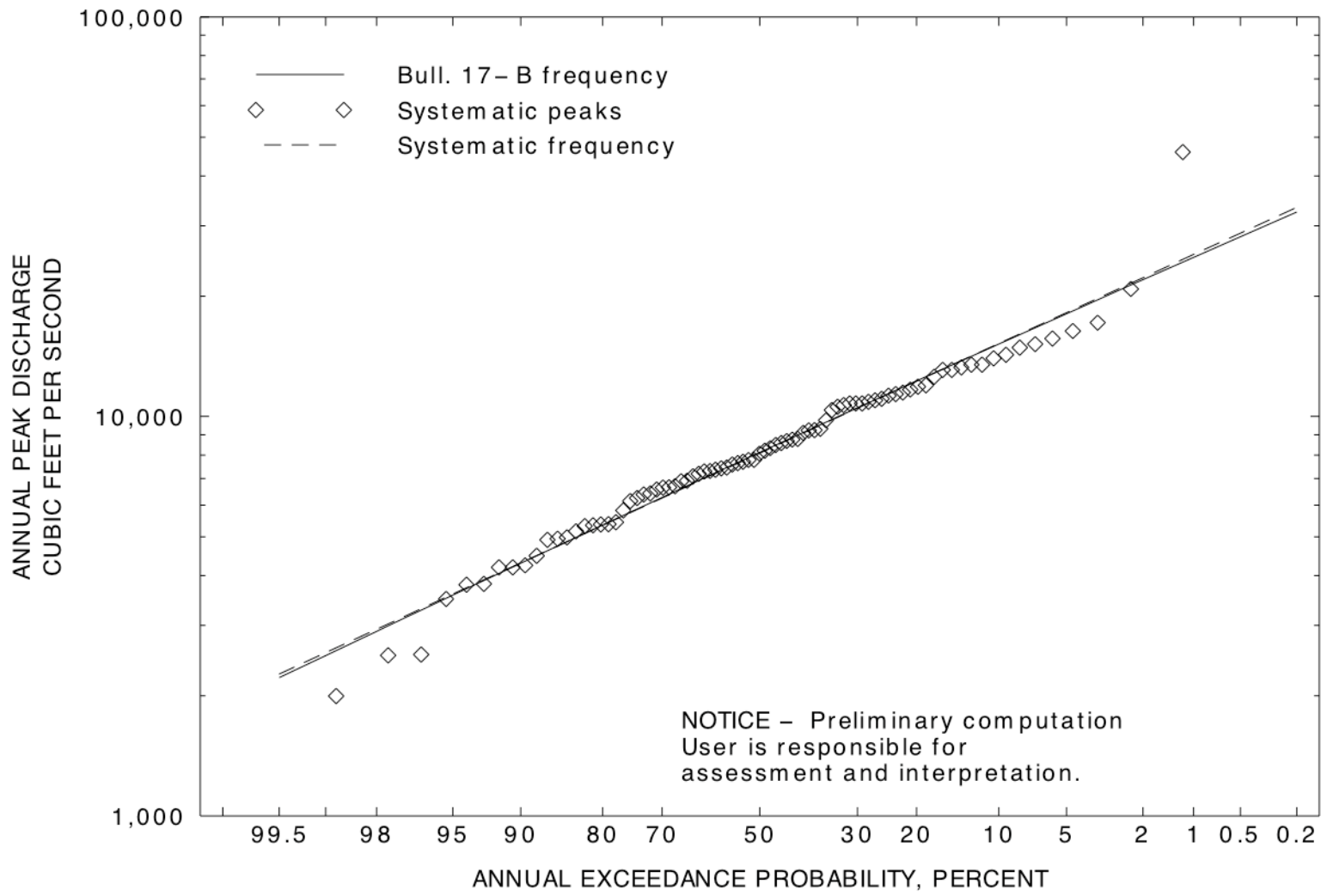
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

Station - 05362000 JUMP RIVER AT SHELDON, WI  
2002 MAR 13 09:02:52

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1941	46000.0	0.0116	0.0116
1967	20900.0	0.0233	0.0233
1946	17200.0	0.0349	0.0349
1993	16400.0	0.0465	0.0465
1920	15700.0	0.0581	0.0581
1939	15200.0	0.0698	0.0698
1942	14900.0	0.0814	0.0814
1994	14300.0	0.0930	0.0930
1986	14000.0	0.1047	0.1047
1982	13500.0	0.1163	0.1163
1996	13500.0	0.1279	0.1279
1923	13300.0	0.1395	0.1395
1968	13100.0	0.1512	0.1512
1973	13100.0	0.1628	0.1628
1971	12600.0	0.1744	0.1744
1950	12000.0	0.1860	0.1860
1951	11900.0	0.1977	0.1977
1938	11700.0	0.2093	0.2093
1927	11500.0	0.2209	0.2209
1965	11400.0	0.2326	0.2326
1997	11300.0	0.2442	0.2442
1954	11100.0	0.2558	0.2558
1943	11000.0	0.2674	0.2674
1992	10900.0	0.2791	0.2791
1935	10800.0	0.2907	0.2907
1936	10800.0	0.3023	0.3023
1976	10800.0	0.3140	0.3140
1972	10700.0	0.3256	0.3256
1983	10600.0	0.3372	0.3372
1932	10400.0	0.3488	0.3488
1928	9800.0	0.3605	0.3605
1969	9330.0	0.3721	0.3721
1930	9260.0	0.3837	0.3837
1975	9250.0	0.3953	0.3953
1981	9120.0	0.4070	0.4070
1916	8800.0	0.4186	0.4186
1998	8770.0	0.4302	0.4302
1966	8700.0	0.4419	0.4419
1922	8600.0	0.4535	0.4535
1961	8500.0	0.4651	0.4651
1952	8350.0	0.4767	0.4767
1933	8220.0	0.4884	0.4884
1956	8090.0	0.5000	0.5000
1918	7800.0	0.5116	0.5116
1921	7800.0	0.5233	0.5233
1929	7720.0	0.5349	0.5349
1924	7660.0	0.5465	0.5465
1953	7600.0	0.5581	0.5581

1926	7470.0	0.5698	0.5698
1947	7430.0	0.5814	0.5814
1987	7370.0	0.5930	0.5930
1995	7320.0	0.6047	0.6047
1960	7300.0	0.6163	0.6163
2000	7200.0	0.6279	0.6279
1985	7100.0	0.6395	0.6395
1945	6920.0	0.6512	0.6512
1944	6900.0	0.6628	0.6628
1959	6700.0	0.6744	0.6744
1919	6660.0	0.6860	0.6860
1934	6650.0	0.6977	0.6977
1974	6580.0	0.7093	0.7093
1990	6430.0	0.7209	0.7209
1991	6390.0	0.7326	0.7326
1955	6260.0	0.7442	0.7442
1940	6150.0	0.7558	0.7558
1958	5830.0	0.7674	0.7674
1949	5450.0	0.7791	0.7791
1931	5390.0	0.7907	0.7907
1980	5380.0	0.8023	0.8023
1962	5350.0	0.8140	0.8140
1979	5330.0	0.8256	0.8256
1970	5170.0	0.8372	0.8372
1984	4990.0	0.8488	0.8488
1999	4950.0	0.8605	0.8605
1978	4920.0	0.8721	0.8721
1937	4490.0	0.8837	0.8837
1948	4250.0	0.8953	0.8953
1917	4200.0	0.9070	0.9070
1925	4200.0	0.9186	0.9186
1977	3820.0	0.9302	0.9302
1963	3800.0	0.9419	0.9419
1989	3500.0	0.9535	0.9535
1964	2540.0	0.9651	0.9651
1988	2530.0	0.9767	0.9767
1957	2000.0	0.9884	0.9884



NOTICE - Preliminary computation  
 User is responsible for  
 assessment and interpretation.

Station - 05362000 JUMP RIVER AT SHELDON, WI  
 2002 MAR 13 09:02:52