

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

Station - 04071000 OCONTO RIVER NEAR GILLETT, WI
 2002 MAR 13 09:02:31

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	90
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	90
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.241
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.		698.4
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	8384.2

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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	3.3838	0.1810	0.002
BULL.17B ESTIMATE	0.0	1.0000	3.3838	0.1810	-0.038

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	814.7	827.5	789.9	686.4	935.0
0.9900	906.9	918.0	885.1	774.4	1031.0
0.9500	1214.0	1219.0	1200.0	1072.0	1344.0
0.9000	1416.0	1418.0	1406.0	1272.0	1550.0
0.8000	1705.0	1704.0	1699.0	1558.0	1846.0
0.5000	2426.0	2419.0	2426.0	2256.0	2610.0
0.2000	3439.0	3437.0	3451.0	3176.0	3765.0
0.1000	4121.0	4129.0	4150.0	3765.0	4587.0
0.0400	4993.0	5022.0	5056.0	4495.0	5672.0
0.0200	5648.0	5699.0	5747.0	5031.0	6509.0
0.0100	6308.0	6386.0	6454.0	5564.0	7367.0
0.0050	6977.0	7087.0	7182.0	6096.0	8251.0
0.0020	7880.0	8040.0	8183.0	6806.0	9463.0
0.6667	2026.7	(1.50-year flood)			
0.4292	2613.3	(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
1907	2570.0		1956	3000.0	
1908	2700.0		1957	1480.0	
1912	4100.0		1958	1500.0	
1914	2090.0		1959	3400.0	
1915	1790.0		1960	4340.0	
1916	3310.0		1961	3000.0	
1917	3000.0		1962	2030.0	
1918	2550.0		1963	1750.0	
1919	2390.0		1964	1840.0	
1920	3310.0		1965	4200.0	
1921	2970.0		1966	1880.0	
1922	8400.0		1967	3580.0	
1923	4010.0		1968	2750.0	
1924	3440.0		1969	3300.0	
1925	1640.0		1970	2170.0	
1926	2400.0		1971	3900.0	
1927	2400.0		1972	3100.0	
1928	3520.0		1973	4900.0	
1929	4490.0		1974	2150.0	
1930	975.0		1975	2390.0	
1931	761.0		1976	2820.0	
1932	1870.0		1977	1600.0	
1933	1600.0		1978	1950.0	
1934	3000.0		1979	2420.0	
1935	3400.0		1980	2270.0	
1936	2100.0		1981	1870.0	
1937	3180.0		1982	2400.0	
1938	3090.0		1983	1860.0	
1939	4200.0		1984	1810.0	
1940	1540.0		1985	1900.0	
1941	1900.0		1986	3000.0	
1942	2340.0		1987	1300.0	
1943	4020.0		1988	1470.0	
1944	1200.0		1989	1800.0	
1945	2300.0		1990	2770.0	
1946	4420.0		1991	2200.0	
1947	1660.0		1992	2280.0	
1948	2980.0		1993	3300.0	
1949	1150.0		1994	1550.0	
1950	2060.0		1995	1280.0	
1951	4050.0		1996	3140.0	
1952	4000.0		1997	2600.0	
1953	5630.0		1998	2620.0	
1954	1520.0		1999	1230.0	
1955	1570.0		2000	1680.0	

Explanation of peak discharge qualification codes

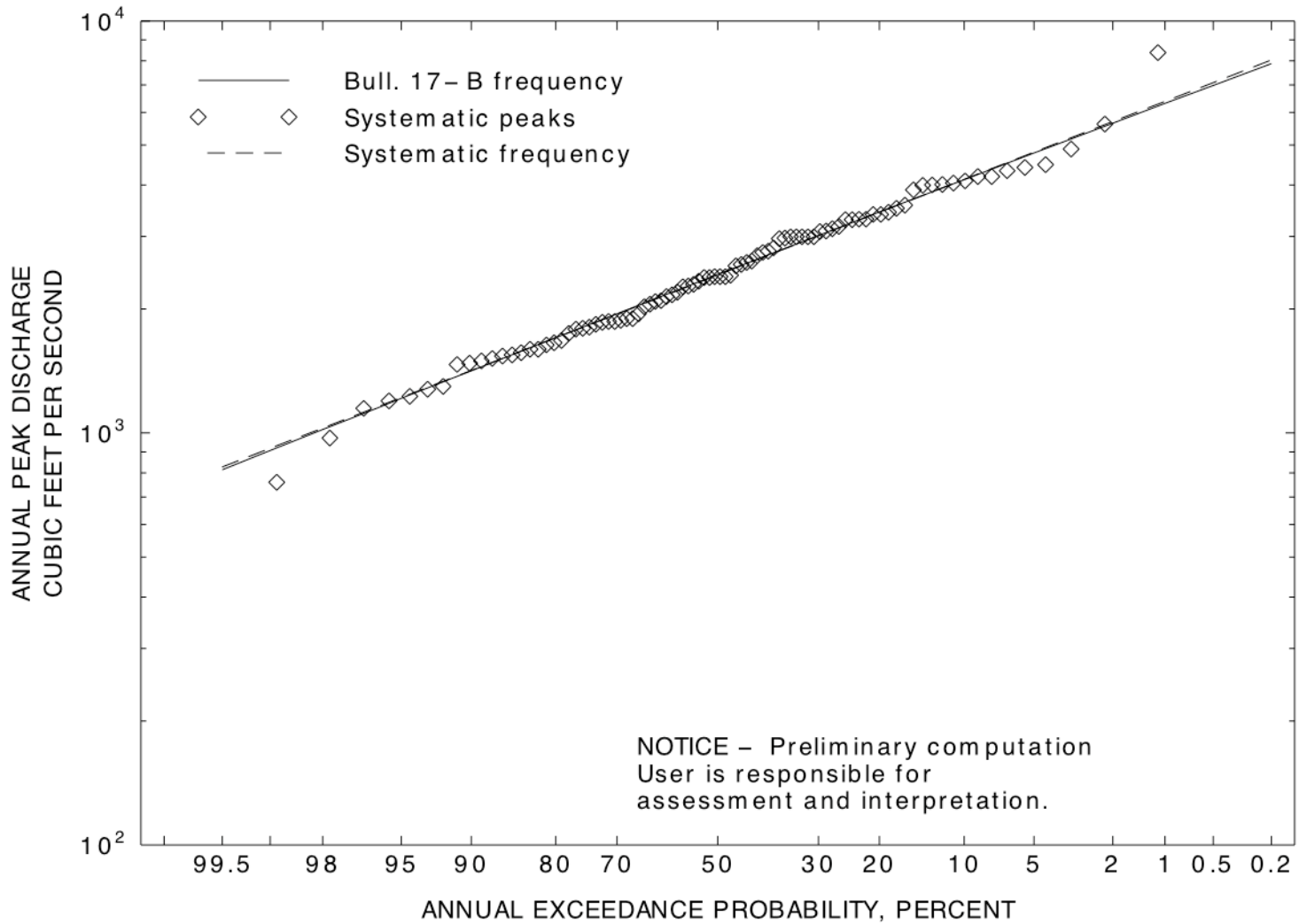
PEAKFQ	WATSTORE	
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1922	8400.0	0.0110	0.0110
1953	5630.0	0.0220	0.0220
1973	4900.0	0.0330	0.0330
1929	4490.0	0.0440	0.0440
1946	4420.0	0.0549	0.0549
1960	4340.0	0.0659	0.0659
1939	4200.0	0.0769	0.0769
1965	4200.0	0.0879	0.0879
1912	4100.0	0.0989	0.0989
1951	4050.0	0.1099	0.1099
1943	4020.0	0.1209	0.1209
1923	4010.0	0.1319	0.1319
1952	4000.0	0.1429	0.1429
1971	3900.0	0.1538	0.1538
1967	3580.0	0.1648	0.1648
1928	3520.0	0.1758	0.1758
1924	3440.0	0.1868	0.1868
1935	3400.0	0.1978	0.1978
1959	3400.0	0.2088	0.2088
1916	3310.0	0.2198	0.2198
1920	3310.0	0.2308	0.2308
1969	3300.0	0.2418	0.2418
1993	3300.0	0.2527	0.2527
1937	3180.0	0.2637	0.2637
1996	3140.0	0.2747	0.2747
1972	3100.0	0.2857	0.2857
1938	3090.0	0.2967	0.2967
1917	3000.0	0.3077	0.3077
1934	3000.0	0.3187	0.3187
1956	3000.0	0.3297	0.3297
1961	3000.0	0.3407	0.3407
1986	3000.0	0.3516	0.3516
1948	2980.0	0.3626	0.3626
1921	2970.0	0.3736	0.3736
1976	2820.0	0.3846	0.3846
1990	2770.0	0.3956	0.3956
1968	2750.0	0.4066	0.4066
1908	2700.0	0.4176	0.4176
1998	2620.0	0.4286	0.4286
1997	2600.0	0.4396	0.4396
1907	2570.0	0.4505	0.4505
1918	2550.0	0.4615	0.4615
1979	2420.0	0.4725	0.4725
1926	2400.0	0.4835	0.4835
1927	2400.0	0.4945	0.4945
1982	2400.0	0.5055	0.5055
1919	2390.0	0.5165	0.5165
1975	2390.0	0.5275	0.5275

1942	2340.0	0.5385	0.5385
1945	2300.0	0.5495	0.5495
1992	2280.0	0.5604	0.5604
1980	2270.0	0.5714	0.5714
1991	2200.0	0.5824	0.5824
1970	2170.0	0.5934	0.5934
1974	2150.0	0.6044	0.6044
1936	2100.0	0.6154	0.6154
1914	2090.0	0.6264	0.6264
1950	2060.0	0.6374	0.6374
1962	2030.0	0.6484	0.6484
1978	1950.0	0.6593	0.6593
1941	1900.0	0.6703	0.6703
1985	1900.0	0.6813	0.6813
1966	1880.0	0.6923	0.6923
1932	1870.0	0.7033	0.7033
1981	1870.0	0.7143	0.7143
1983	1860.0	0.7253	0.7253
1964	1840.0	0.7363	0.7363
1984	1810.0	0.7473	0.7473
1989	1800.0	0.7582	0.7582
1915	1790.0	0.7692	0.7692
1963	1750.0	0.7802	0.7802
2000	1680.0	0.7912	0.7912
1947	1660.0	0.8022	0.8022
1925	1640.0	0.8132	0.8132
1933	1600.0	0.8242	0.8242
1977	1600.0	0.8352	0.8352
1955	1570.0	0.8462	0.8462
1994	1550.0	0.8571	0.8571
1940	1540.0	0.8681	0.8681
1954	1520.0	0.8791	0.8791
1958	1500.0	0.8901	0.8901
1957	1480.0	0.9011	0.9011
1988	1470.0	0.9121	0.9121
1987	1300.0	0.9231	0.9231
1995	1280.0	0.9341	0.9341
1999	1230.0	0.9451	0.9451
1944	1200.0	0.9560	0.9560
1949	1150.0	0.9670	0.9670
1930	975.0	0.9780	0.9780
1931	761.0	0.9890	0.9890



NOTICE - Preliminary computation
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