

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

Station - 05400760 WISCONSIN RIVER AT WISCONSIN RAPIDS, WI
 2002 JUL 10 11:21:10

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

Number of peaks in record	=	86
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	86
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	0.000
Standard error of generalized skew	=	0.550
Skew option	=	STATION SKEW
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	8202.1	
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		115953.2	
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	-0.441	-0.580	-1

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 2002 JUL 10 11:21:10

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	4.5012	0.1980	-0.731
BULL.17B ESTIMATE	8202.1	0.9884	4.5053	0.1892	-0.580

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	--	7203.0	--	--	--
0.9900	--	8668.0	--	--	--
0.9500	14660.0	13800.0	14420.0	12750.0	16440.0
0.9000	17950.0	17260.0	17780.0	15970.0	19810.0
0.8000	22580.0	22150.0	22480.0	20520.0	24560.0
0.5000	33380.0	33510.0	33380.0	30890.0	36110.0
0.2000	46490.0	46860.0	46640.0	42690.0	51250.0
0.1000	54060.0	54250.0	54370.0	49190.0	60430.0
0.0400	62490.0	62150.0	63070.0	56260.0	70930.0
0.0200	68040.0	67140.0	68850.0	60840.0	77980.0
0.0100	73060.0	71490.0	74120.0	64930.0	84440.0
0.0050	77640.0	75320.0	78970.0	68620.0	90390.0
0.0020	83120.0	79730.0	84850.0	73020.0	97590.0
0.6667	27522.9	(1.50-year flood)			
0.4292	36073.6	(2.33-year flood)			

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 2002 JUL 10 11:21:10

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1915	18700.0	K	1958	18900.0	K
1916	41600.0	K	1959	51800.0	K
1917	17900.0	K	1960	57900.0	K
1918	32600.0	K	1961	40000.0	K
1919	24800.0	K	1962	27100.0	K
1920	41900.0	K	1963	29100.0	K
1921	32200.0	K	1964	15400.0	K
1922	52600.0	K	1965	57700.0	K
1923	37700.0	K	1966	35700.0	K
1924	29700.0	K	1967	59300.0	K
1925	13800.0	K	1968	36800.0	K
1926	40400.0	K	1969	43600.0	K
1927	35200.0	K	1970	25800.0	K
1928	43900.0	K	1971	46600.0	K
1929	40600.0	K	1972	46800.0	K
1930	35200.0	K	1973	54700.0	K
1931	10000.0	K	1974	24900.0	K
1932	29800.0	K	1975	33400.0	K
1933	17600.0	K	1976	51400.0	
1934	26000.0	K	1977	10000.0	K
1935	51600.0	K	1978	27100.0	K
1936	31300.0	K	1979	34900.0	K
1937	22500.0	K	1980	55900.0	
1938	56700.0	K	1981	28200.0	
1939	34400.0	K	1982	40600.0	
1940	45700.0	K	1983	58600.0	
1941	51600.0	K	1984	39500.0	K
1942	54700.0	K	1985	25100.0	K
1943	49700.0	K	1986	59000.0	K
1944	20800.0	K	1987	46600.0	
1945	34100.0	K	1988	18400.0	K
1946	28300.0	K	1989	33700.0	
1947	22800.0	K	1990	55900.0	
1948	17900.0	K	1991	40400.0	K
1949	12000.0	K	1992	26700.0	K
1950	24300.0		1993	63600.0	K
1951	42800.0		1994	24700.0	K
1952	22400.0		1995	26900.0	K
1953	24200.0		1996	46400.0	K
1954	27600.0		1997	47300.0	K
1955	20800.0		1998	34100.0	K
1956	24700.0		1999	21300.0	K
1957	7870.0		2000	17300.0	K

Explanation of peak discharge qualification codes

PEAKFQ WATSTORE

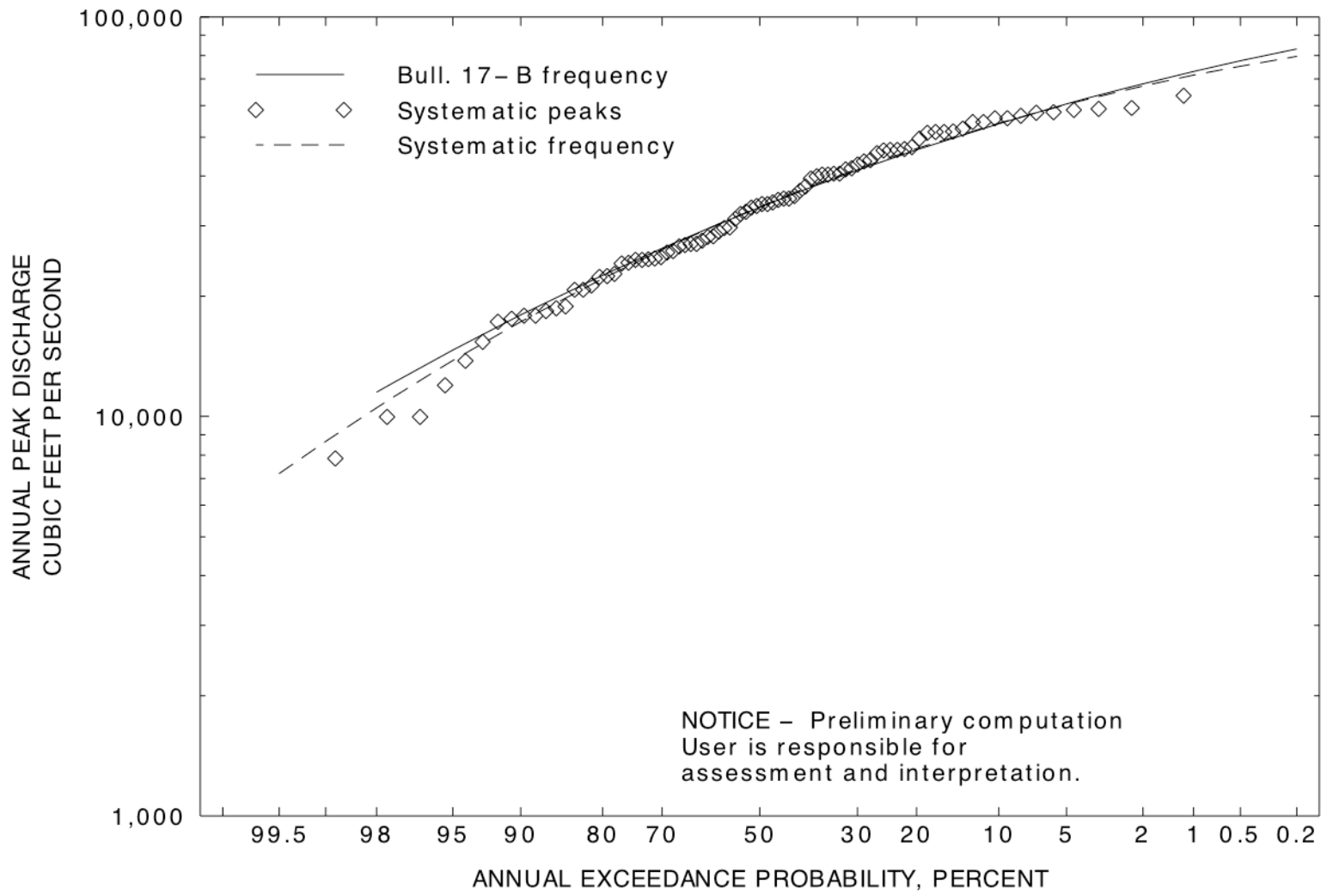
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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2002 JUL 10 11:21:10

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1993	63600.0	0.0115	0.0115
1967	59300.0	0.0230	0.0230
1986	59000.0	0.0345	0.0345
1983	58600.0	0.0460	0.0460
1960	57900.0	0.0575	0.0575
1965	57700.0	0.0690	0.0690
1938	56700.0	0.0805	0.0805
1980	55900.0	0.0920	0.0920
1990	55900.0	0.1034	0.1034
1942	54700.0	0.1149	0.1149
1973	54700.0	0.1264	0.1264
1922	52600.0	0.1379	0.1379
1959	51800.0	0.1494	0.1494
1935	51600.0	0.1609	0.1609
1941	51600.0	0.1724	0.1724
1976	51400.0	0.1839	0.1839
1943	49700.0	0.1954	0.1954
1997	47300.0	0.2069	0.2069
1972	46800.0	0.2184	0.2184
1971	46600.0	0.2299	0.2299
1987	46600.0	0.2414	0.2414
1996	46400.0	0.2529	0.2529
1940	45700.0	0.2644	0.2644
1928	43900.0	0.2759	0.2759
1969	43600.0	0.2874	0.2874
1951	42800.0	0.2989	0.2989
1920	41900.0	0.3103	0.3103
1916	41600.0	0.3218	0.3218
1929	40600.0	0.3333	0.3333
1982	40600.0	0.3448	0.3448
1926	40400.0	0.3563	0.3563
1991	40400.0	0.3678	0.3678
1961	40000.0	0.3793	0.3793
1984	39500.0	0.3908	0.3908
1923	37700.0	0.4023	0.4023
1968	36800.0	0.4138	0.4138
1966	35700.0	0.4253	0.4253
1927	35200.0	0.4368	0.4368
1930	35200.0	0.4483	0.4483
1979	34900.0	0.4598	0.4598
1939	34400.0	0.4713	0.4713
1945	34100.0	0.4828	0.4828
1998	34100.0	0.4943	0.4943
1989	33700.0	0.5057	0.5057
1975	33400.0	0.5172	0.5172
1918	32600.0	0.5287	0.5287
1921	32200.0	0.5402	0.5402
1936	31300.0	0.5517	0.5517

1932	29800.0	0.5632	0.5632
1924	29700.0	0.5747	0.5747
1963	29100.0	0.5862	0.5862
1946	28300.0	0.5977	0.5977
1981	28200.0	0.6092	0.6092
1954	27600.0	0.6207	0.6207
1962	27100.0	0.6322	0.6322
1978	27100.0	0.6437	0.6437
1995	26900.0	0.6552	0.6552
1992	26700.0	0.6667	0.6667
1934	26000.0	0.6782	0.6782
1970	25800.0	0.6897	0.6897
1985	25100.0	0.7011	0.7011
1974	24900.0	0.7126	0.7126
1919	24800.0	0.7241	0.7241
1956	24700.0	0.7356	0.7356
1994	24700.0	0.7471	0.7471
1950	24300.0	0.7586	0.7586
1953	24200.0	0.7701	0.7701
1947	22800.0	0.7816	0.7816
1937	22500.0	0.7931	0.7931
1952	22400.0	0.8046	0.8046
1999	21300.0	0.8161	0.8161
1944	20800.0	0.8276	0.8276
1955	20800.0	0.8391	0.8391
1958	18900.0	0.8506	0.8506
1915	18700.0	0.8621	0.8621
1988	18400.0	0.8736	0.8736
1917	17900.0	0.8851	0.8851
1948	17900.0	0.8966	0.8966
1933	17600.0	0.9080	0.9080
2000	17300.0	0.9195	0.9195
1964	15400.0	0.9310	0.9310
1925	13800.0	0.9425	0.9425
1949	12000.0	0.9540	0.9540
1931	10000.0	0.9655	0.9655
1977	10000.0	0.9770	0.9770
1957	7870.0	0.9885	0.9885



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 2002 JUL 10 11:21:10