

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

Station - 05344500 MISSISSIPPI RIVER AT PRESCOTT, WI
 2002 MAR 13 09:02:47

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

Number of peaks in record	=	72
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	72
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.394
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.	13244.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	282146.2

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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	4.7863	0.2288	-0.136
BULL.17B ESTIMATE	0.0	1.0000	4.7863	0.2288	-0.190

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	14330.0	14720.0	13550.0	11080.0	17510.0
0.9900	16680.0	17030.0	15970.0	13190.0	20070.0
0.9500	25000.0	25190.0	24510.0	20880.0	28910.0
0.9000	30820.0	30900.0	30440.0	26400.0	35020.0
0.8000	39460.0	39390.0	39220.0	34690.0	44120.0
0.5000	62160.0	61860.0	62160.0	56080.0	68930.0
0.2000	95640.0	95540.0	96140.0	85490.0	108900.0
0.1000	118700.0	119100.0	119900.0	104600.0	138200.0
0.0400	148400.0	149900.0	151100.0	128400.0	177500.0
0.0200	170800.0	173500.0	175100.0	145900.0	208100.0
0.0100	193400.0	197500.0	199600.0	163200.0	239600.0
0.0050	216200.0	222000.0	224900.0	180400.0	272100.0
0.0020	246800.0	255400.0	259600.0	203100.0	316500.0
0.6667	49403.3	(1.50-year flood)			
0.4292	68293.4	(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
1929	49600.0		1965	228000.0	
1930	33700.0		1966	74800.0	
1931	22400.0		1967	87800.0	
1932	30300.0		1968	40200.0	
1933	19800.0		1969	199000.0	
1934	15000.0		1970	54900.0	
1935	36200.0		1971	83000.0	
1936	52500.0		1972	95500.0	
1937	31000.0		1973	78300.0	
1938	60700.0		1974	65200.0	
1939	65000.0		1975	112000.0	
1940	33800.0		1976	72800.0	
1941	67600.0		1977	26100.0	
1942	42400.0		1978	65400.0	
1943	80200.0		1979	100400.0	
1944	84700.0		1980	43100.0	
1945	87500.0		1981	43400.0	
1946	65500.0		1982	86700.0	
1947	63100.0		1983	84200.0	
1948	63100.0		1984	90900.0	
1949	53800.0		1985	73400.0	
1950	101000.0		1986	116000.0	
1951	128000.0		1987	29400.0	
1952	155000.0		1988	28200.0	
1953	67700.0		1989	49000.0	
1954	82800.0		1990	42900.0	
1955	45200.0		1991	74300.0	
1956	62700.0		1992	69400.0	
1957	94000.0		1993	130000.0	
1958	28400.0		1994	72900.0	
1959	35300.0		1995	65000.0	
1960	54000.0		1996	82600.0	
1961	46300.0		1997	161000.0	
1962	76300.0		1998	70400.0	
1963	41400.0		1999	72500.0	
1964	57600.0		2000	32000.0	

Explanation of peak discharge qualification codes

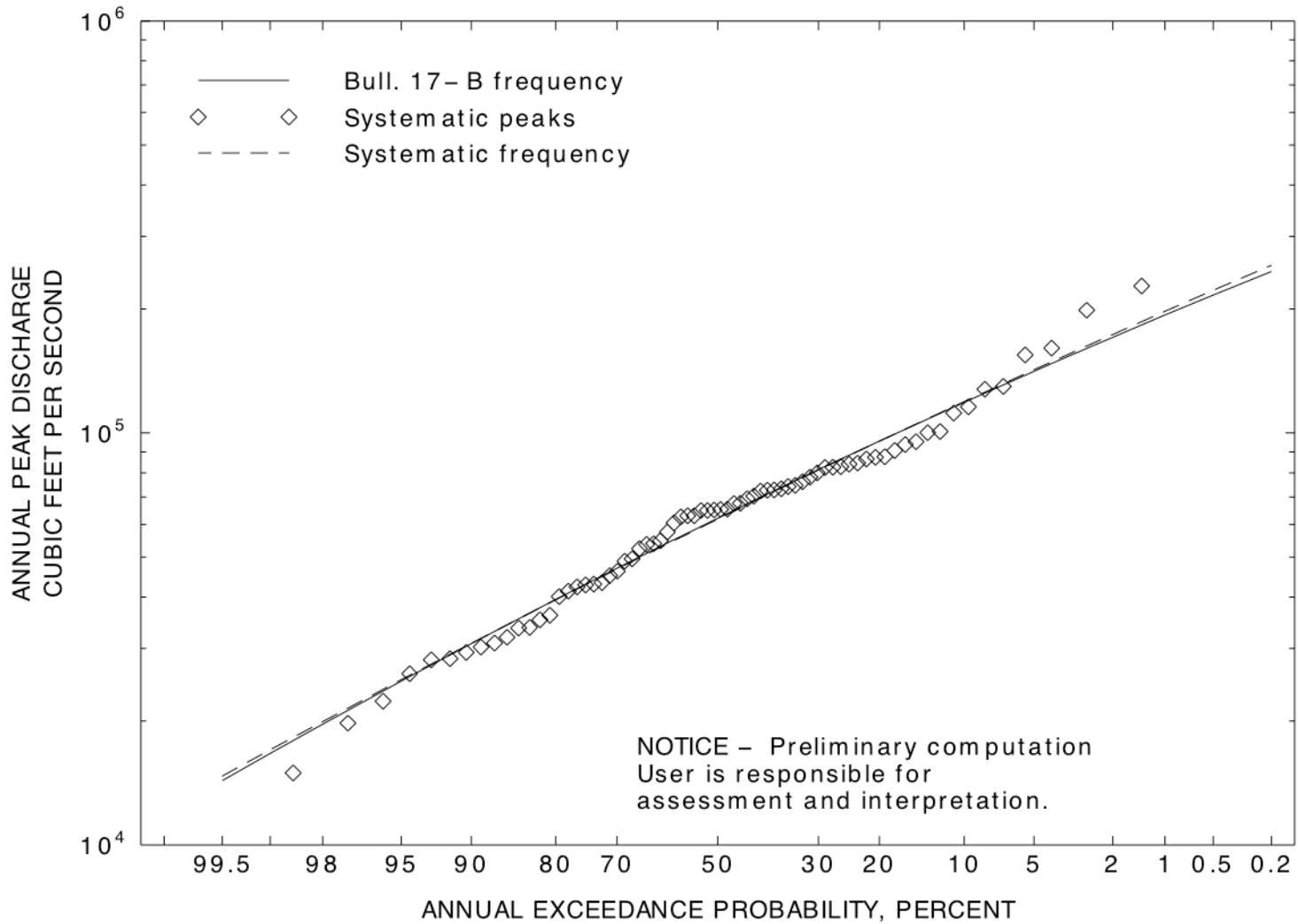
PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1965	228000.0	0.0137	0.0137
1969	199000.0	0.0274	0.0274
1997	161000.0	0.0411	0.0411
1952	155000.0	0.0548	0.0548
1993	130000.0	0.0685	0.0685
1951	128000.0	0.0822	0.0822
1986	116000.0	0.0959	0.0959
1975	112000.0	0.1096	0.1096
1950	101000.0	0.1233	0.1233
1979	100400.0	0.1370	0.1370
1972	95500.0	0.1507	0.1507
1957	94000.0	0.1644	0.1644
1984	90900.0	0.1781	0.1781
1967	87800.0	0.1918	0.1918
1945	87500.0	0.2055	0.2055
1982	86700.0	0.2192	0.2192
1944	84700.0	0.2329	0.2329
1983	84200.0	0.2466	0.2466
1971	83000.0	0.2603	0.2603
1954	82800.0	0.2740	0.2740
1996	82600.0	0.2877	0.2877
1943	80200.0	0.3014	0.3014
1973	78300.0	0.3151	0.3151
1962	76300.0	0.3288	0.3288
1966	74800.0	0.3425	0.3425
1991	74300.0	0.3562	0.3562
1985	73400.0	0.3699	0.3699
1994	72900.0	0.3836	0.3836
1976	72800.0	0.3973	0.3973
1999	72500.0	0.4110	0.4110
1998	70400.0	0.4247	0.4247
1992	69400.0	0.4384	0.4384
1953	67700.0	0.4521	0.4521
1941	67600.0	0.4658	0.4658
1946	65500.0	0.4795	0.4795
1978	65400.0	0.4932	0.4932
1974	65200.0	0.5068	0.5068
1939	65000.0	0.5205	0.5205
1995	65000.0	0.5342	0.5342
1947	63100.0	0.5479	0.5479
1948	63100.0	0.5616	0.5616
1956	62700.0	0.5753	0.5753
1938	60700.0	0.5890	0.5890
1964	57600.0	0.6027	0.6027
1970	54900.0	0.6164	0.6164
1960	54000.0	0.6301	0.6301
1949	53800.0	0.6438	0.6438
1936	52500.0	0.6575	0.6575

1929	49600.0	0.6712	0.6712
1989	49000.0	0.6849	0.6849
1961	46300.0	0.6986	0.6986
1955	45200.0	0.7123	0.7123
1981	43400.0	0.7260	0.7260
1980	43100.0	0.7397	0.7397
1990	42900.0	0.7534	0.7534
1942	42400.0	0.7671	0.7671
1963	41400.0	0.7808	0.7808
1968	40200.0	0.7945	0.7945
1935	36200.0	0.8082	0.8082
1959	35300.0	0.8219	0.8219
1940	33800.0	0.8356	0.8356
1930	33700.0	0.8493	0.8493
2000	32000.0	0.8630	0.8630
1937	31000.0	0.8767	0.8767
1932	30300.0	0.8904	0.8904
1987	29400.0	0.9041	0.9041
1958	28400.0	0.9178	0.9178
1988	28200.0	0.9315	0.9315
1977	26100.0	0.9452	0.9452
1931	22400.0	0.9589	0.9589
1933	19800.0	0.9726	0.9726
1934	15000.0	0.9863	0.9863



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