

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

Station - 05379500 TREMPPEALEAU RIVER AT DODGE, WI
 2002 MAR 15 14:48:58

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

Number of peaks in record	=	73
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	72
Historic peaks in analysis	=	1
Years of historic record	=	124
Generalized skew	=	-0.391
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	0.0
User supplied high outlier threshold	=	17400.0
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.		616.9
*WCF161I-USER HIGH OUTLIER CRITERION REPLACES 17B.	17400.0	23453.8
WCF165I-HIGH OUTLIERS AND HISTORIC PEAKS ABOVE HHBASE.	0 1	17400.0

Station - 05379500 TREMPPEALEAU RIVER AT DODGE, WI
 2002 MAR 15 14:48:58

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.5802	0.2721	-0.193
BULL.17B ESTIMATE	0.0	1.0000	3.5855	0.2767	-0.162

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	677.5	676.2	634.2	497.7	861.9
0.9900	811.3	810.7	770.7	611.7	1013.0
0.9500	1313.0	1313.0	1282.0	1056.0	1564.0
0.9000	1685.0	1684.0	1660.0	1398.0	1966.0
0.8000	2265.0	2260.0	2249.0	1939.0	2593.0
0.5000	3917.0	3881.0	3917.0	3459.0	4439.0
0.2000	6612.0	6478.0	6654.0	5773.0	7732.0
0.1000	8609.0	8373.0	8718.0	7389.0	10350.0
0.0400	11330.0	10920.0	11580.0	9504.0	14080.0
0.0200	13470.0	12900.0	13890.0	11120.0	17130.0
0.0100	15700.0	14940.0	16340.0	12770.0	20390.0
0.0050	18030.0	17060.0	18940.0	14460.0	23870.0
0.0020	21260.0	19960.0	22660.0	16760.0	28820.0
0.6667	2969.0	(1.50-year flood)			
0.4292	4389.6	(2.33-year flood)			

Station - 05379500 TREMPPEALEAU RIVER AT DODGE, WI
 2002 MAR 15 14:48:58

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

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
-1956	17400.0	H	1965	12100.0	
1914	3700.0		1966	3600.0	
1915	1700.0		1967	7350.0	
1916	3360.0		1968	3220.0	
1917	1650.0		1969	2200.0	
1918	3600.0		1970	2830.0	
1919	11000.0		1971	2170.0	
1934	8500.0		1972	5950.0	
1935	4490.0		1973	5500.0	
1936	7180.0		1974	2430.0	
1937	1780.0		1975	10600.0	
1938	3170.0		1976	3030.0	
1939	6400.0		1977	1520.0	
1940	3120.0		1978	3040.0	
1941	2890.0		1979	1900.0	
1942	5680.0		1980	4430.0	
1943	5060.0		1981	3990.0	
1944	2040.0		1982	2020.0	
1945	8120.0		1983	4410.0	
1946	4570.0		1984	1570.0	
1947	5410.0		1985	9310.0	
1948	4840.0		1986	4920.0	
1949	1920.0		1987	2860.0	
1950	3600.0		1988	2290.0	
1951	4840.0		1989	7110.0	
1952	6950.0		1990	6440.0	
1953	4040.0		1991	1380.0	
1954	5710.0		1992	8230.0	
1955	10400.0		1993	5880.0	
1957	713.0		1994	4430.0	
1958	1140.0		1995	4170.0	
1959	8000.0		1996	3910.0	
1960	1480.0		1997	2050.0	
1961	11100.0		1998	7730.0	
1962	6800.0		1999	1860.0	
1963	3240.0		2000	2170.0	
1964	1980.0				

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

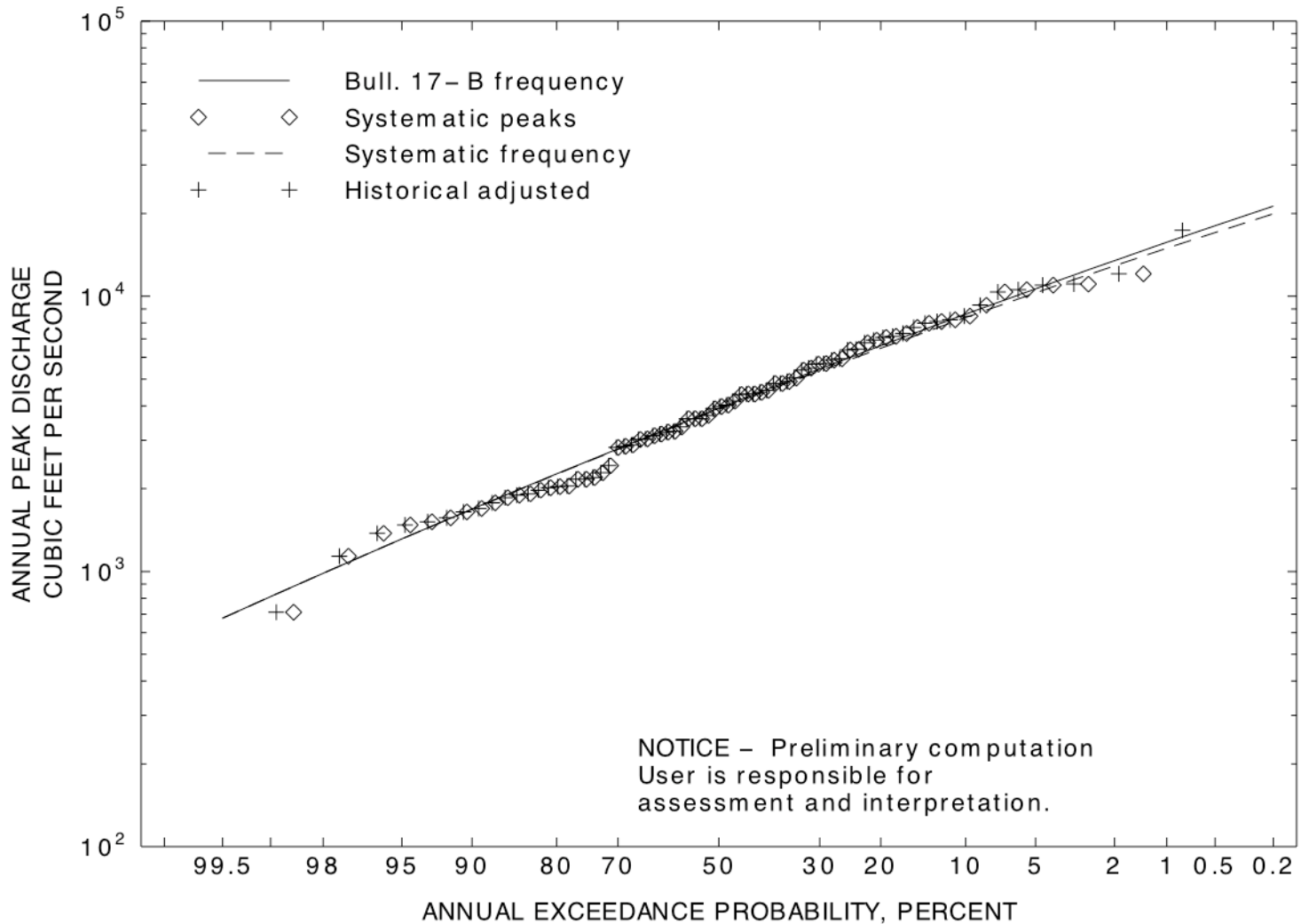
K 6 OR C Known effect of regulation or urbanization
H 7 Historic peak

Station - 05379500 TREMPPEALEAU RIVER AT DODGE, WI
2002 MAR 15 14:48:58

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
-1956	17400.0	--	0.0080
1965	12100.0	0.0137	0.0188
1961	11100.0	0.0274	0.0325
1919	11000.0	0.0411	0.0462
1975	10600.0	0.0548	0.0598
1955	10400.0	0.0685	0.0735
1985	9310.0	0.0822	0.0872
1934	8500.0	0.0959	0.1008
1992	8230.0	0.1096	0.1145
1945	8120.0	0.1233	0.1282
1959	8000.0	0.1370	0.1418
1998	7730.0	0.1507	0.1555
1967	7350.0	0.1644	0.1692
1936	7180.0	0.1781	0.1828
1989	7110.0	0.1918	0.1965
1952	6950.0	0.2055	0.2102
1962	6800.0	0.2192	0.2238
1990	6440.0	0.2329	0.2375
1939	6400.0	0.2466	0.2512
1972	5950.0	0.2603	0.2648
1993	5880.0	0.2740	0.2785
1954	5710.0	0.2877	0.2922
1942	5680.0	0.3014	0.3058
1973	5500.0	0.3151	0.3195
1947	5410.0	0.3288	0.3332
1943	5060.0	0.3425	0.3468
1986	4920.0	0.3562	0.3605
1948	4840.0	0.3699	0.3742
1951	4840.0	0.3836	0.3878
1946	4570.0	0.3973	0.4015
1935	4490.0	0.4110	0.4152
1980	4430.0	0.4247	0.4288
1994	4430.0	0.4384	0.4425
1983	4410.0	0.4521	0.4562
1995	4170.0	0.4658	0.4698
1953	4040.0	0.4795	0.4835
1981	3990.0	0.4932	0.4972
1996	3910.0	0.5068	0.5108
1914	3700.0	0.5205	0.5245
1918	3600.0	0.5342	0.5382
1950	3600.0	0.5479	0.5518
1966	3600.0	0.5616	0.5655
1916	3360.0	0.5753	0.5792
1963	3240.0	0.5890	0.5928
1968	3220.0	0.6027	0.6065
1938	3170.0	0.6164	0.6202
1940	3120.0	0.6301	0.6338
1978	3040.0	0.6438	0.6475

1976	3030.0	0.6575	0.6612
1941	2890.0	0.6712	0.6748
1987	2860.0	0.6849	0.6885
1970	2830.0	0.6986	0.7022
1974	2430.0	0.7123	0.7158
1988	2290.0	0.7260	0.7295
1969	2200.0	0.7397	0.7432
1971	2170.0	0.7534	0.7568
2000	2170.0	0.7671	0.7705
1997	2050.0	0.7808	0.7842
1944	2040.0	0.7945	0.7978
1982	2020.0	0.8082	0.8115
1964	1980.0	0.8219	0.8252
1949	1920.0	0.8356	0.8388
1979	1900.0	0.8493	0.8525
1999	1860.0	0.8630	0.8662
1937	1780.0	0.8767	0.8798
1915	1700.0	0.8904	0.8935
1917	1650.0	0.9041	0.9072
1984	1570.0	0.9178	0.9208
1977	1520.0	0.9315	0.9345
1960	1480.0	0.9452	0.9482
1991	1380.0	0.9589	0.9618
1958	1140.0	0.9726	0.9755
1957	713.0	0.9863	0.9892



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

Station - 05379500 TREMPEALEAU RIVER AT DODGE, WI
 2002 MAR 15 14:48:58