

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

Station - 04026450 BAD RIVER NEAR MELLEEN, WI
 2002 MAR 13 09:01:59

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

Number of peaks in record	=	28
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	28
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.160
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	244.7
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2850.0

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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	2.9514	0.2221	-0.413
BULL.17B ESTIMATE	244.7	0.9643	2.9644	0.1950	0.091

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	--	196.7	--	--	--
0.9900	--	233.6	--	--	--
0.9500	445.4	364.7	428.7	342.8	535.9
0.9000	520.5	455.8	508.2	414.9	614.8
0.8000	630.2	589.3	622.5	521.7	731.4
0.5000	915.2	926.1	915.2	792.7	1056.0
0.2000	1342.0	1385.0	1359.0	1156.0	1620.0
0.1000	1645.0	1677.0	1689.0	1392.0	2068.0
0.0400	2051.0	2028.0	2152.0	1688.0	2711.0
0.0200	2368.0	2276.0	2536.0	1910.0	3243.0
0.0100	2698.0	2512.0	2959.0	2135.0	3820.0
0.0050	3044.0	2740.0	3428.0	2363.0	4446.0
0.0020	3526.0	3027.0	4135.0	2674.0	5356.0
0.6667	755.4	(1.50-year flood)			
0.4292	991.1	(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
1971	1360.0		1986	717.0	
1972	2130.0		1987	220.0	
1973	620.0		1988	704.0	
1974	886.0		1989	673.0	
1975	1030.0		1990	415.0	
1976	710.0		1991	973.0	
1977	735.0		1992	2450.0	
1978	815.0		1993	800.0	
1979	1280.0		1994	668.0	
1980	470.0		1996	1160.0	
1981	1290.0		1997	1360.0	
1982	539.0		1998	1640.0	
1984	746.0		1999	976.0	
1985	1500.0		2000	1340.0	

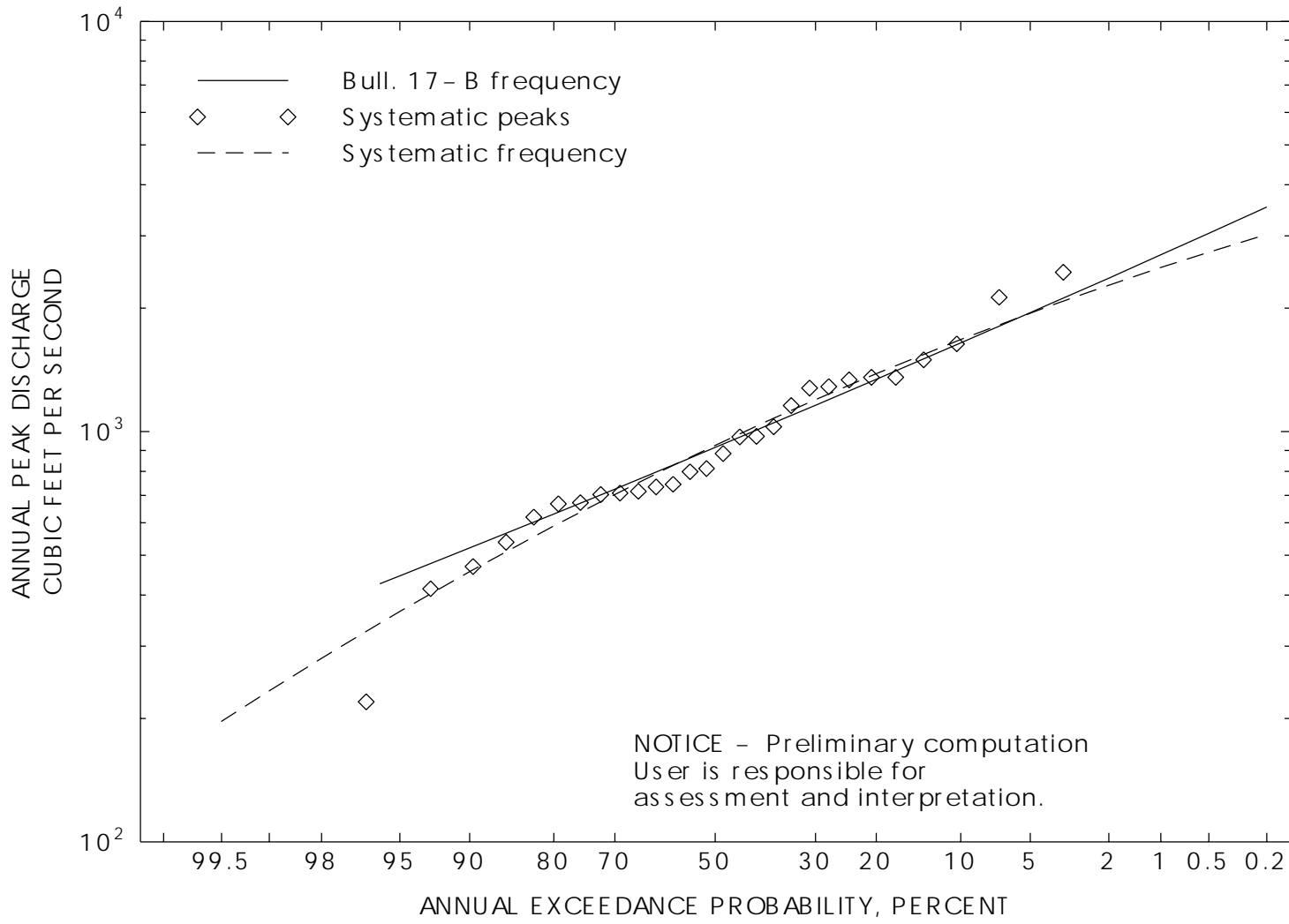
Explanation of peak discharge qualification codes

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
1992	2450.0	0.0345	0.0345
1972	2130.0	0.0690	0.0690
1998	1640.0	0.1034	0.1034
1985	1500.0	0.1379	0.1379
1971	1360.0	0.1724	0.1724
1997	1360.0	0.2069	0.2069
2000	1340.0	0.2414	0.2414
1981	1290.0	0.2759	0.2759
1979	1280.0	0.3103	0.3103
1996	1160.0	0.3448	0.3448
1975	1030.0	0.3793	0.3793
1999	976.0	0.4138	0.4138
1991	973.0	0.4483	0.4483
1974	886.0	0.4828	0.4828
1978	815.0	0.5172	0.5172
1993	800.0	0.5517	0.5517
1984	746.0	0.5862	0.5862
1977	735.0	0.6207	0.6207
1986	717.0	0.6552	0.6552
1976	710.0	0.6897	0.6897
1988	704.0	0.7241	0.7241
1989	673.0	0.7586	0.7586
1994	668.0	0.7931	0.7931
1973	620.0	0.8276	0.8276
1982	539.0	0.8621	0.8621
1980	470.0	0.8966	0.8966
1990	415.0	0.9310	0.9310
1987	220.0	0.9655	0.9655



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