

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

Station - 05386300 MORMON CREEK NEAR LA CROSSE, WI
 2002 MAR 13 09:02:59

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

Number of peaks in record	=	33
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	33
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.400
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	400.0
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. *****

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	11	400.0	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		186.8	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	11	400.0	8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		10146.9	
WCF002J-CALCS COMPLETED. RETURN CODE = 2			

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 2002 MAR 13 09:02:59

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	400.0	0.6667	2.8717	0.5074	-0.231
BULL.17B ESTIMATE	400.0	0.6667	2.8717	0.5074	-0.292

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
0.5000	787.6	778.3	787.6	560.8	1112.0
0.2000	2015.0	2011.0	2066.0	1407.0	3152.0
0.1000	3192.0	3222.0	3346.0	2142.0	5409.0
0.0400	5093.0	5228.0	5528.0	3243.0	9478.0
0.0200	6803.0	7078.0	7604.0	4178.0	13470.0
0.0100	8755.0	9232.0	10110.0	5198.0	18330.0
0.0050	10950.0	11710.0	13090.0	6305.0	24130.0
0.0020	14250.0	15520.0	17890.0	7901.0	33360.0
0.6667	472.0	(1.50-year flood)			
0.4292	970.7	(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
1961	720.0		1978	6600.0	
1962	450.0		1979	420.0	
1963	90.0		1980	2740.0	
1964	40.0		1981	5120.0	
1965	760.0		1982	70.0	
1966	700.0		1983	1940.0	
1967	440.0		1984	1340.0	
1968	1820.0		1985	1330.0	
1969	1680.0		1986	90.0	
1970	400.0	L	1987	40.0	L
1971	400.0	L	1988	100.0	
1972	400.0	L	1989	715.0	
1973	400.0	L	1990	4200.0	
1974	400.0	L	1991	1100.0	
1975	2120.0		1992	525.0	
1976	1170.0		1993	3770.0	
1977	2240.0				

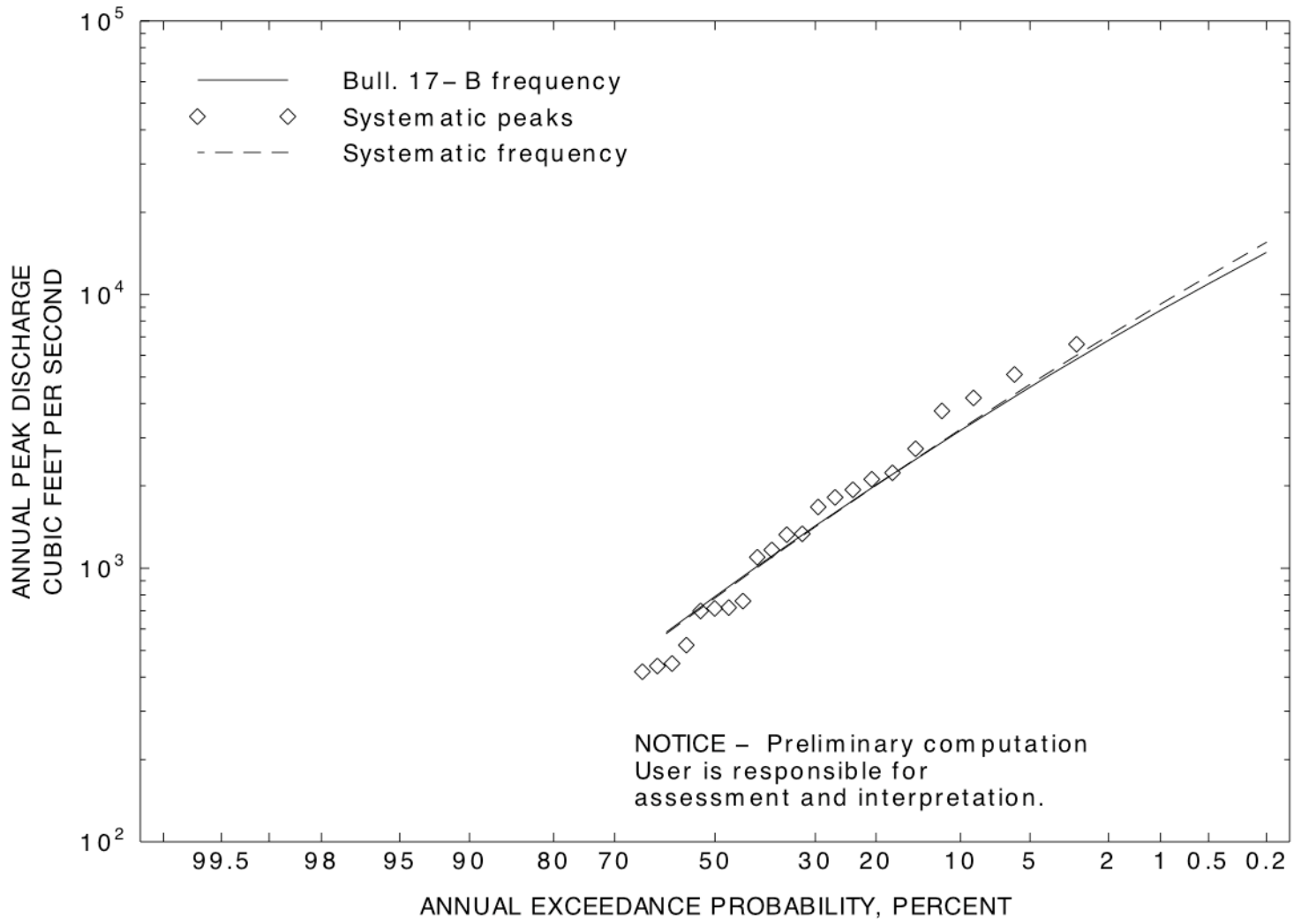
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE 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 MAR 13 09:02:59

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1978	6600.0	0.0294	0.0294
1981	5120.0	0.0588	0.0588
1990	4200.0	0.0882	0.0882
1993	3770.0	0.1176	0.1176
1980	2740.0	0.1471	0.1471
1977	2240.0	0.1765	0.1765
1975	2120.0	0.2059	0.2059
1983	1940.0	0.2353	0.2353
1968	1820.0	0.2647	0.2647
1969	1680.0	0.2941	0.2941
1984	1340.0	0.3235	0.3235
1985	1330.0	0.3529	0.3529
1976	1170.0	0.3824	0.3824
1991	1100.0	0.4118	0.4118
1965	760.0	0.4412	0.4412
1961	720.0	0.4706	0.4706
1989	715.0	0.5000	0.5000
1966	700.0	0.5294	0.5294
1992	525.0	0.5588	0.5588
1962	450.0	0.5882	0.5882
1967	440.0	0.6176	0.6176
1979	420.0	0.6471	0.6471
1970	400.0	--	--
1971	400.0	--	--
1972	400.0	--	--
1973	400.0	--	--
1974	400.0	--	--
1988	100.0	--	--
1963	90.0	--	--
1986	90.0	--	--
1982	70.0	--	--
1964	40.0	--	--
1987	40.0	--	--



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