

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

Station - 04087100 HONEY CREEK AT MILWAUKEE, WI
 2002 MAR 13 09:02:42

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

Number of peaks in record	=	42
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	42
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	=	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.	80.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1894.2

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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	2.5908	0.2543	0.256
BULL.17B ESTIMATE	0.0	1.0000	2.5908	0.2543	0.048

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	88.6	99.3	81.1	61.3	115.6
0.9900	101.9	111.5	95.0	72.6	130.6
0.9500	150.0	155.5	145.0	114.8	183.5
0.9000	184.6	187.3	180.7	146.4	221.2
0.8000	237.8	236.7	235.2	195.8	279.2
0.5000	387.9	380.2	387.9	333.4	451.2
0.2000	637.1	632.5	644.2	542.7	773.4
0.1000	827.9	837.3	846.4	690.6	1045.0
0.0400	1097.0	1142.0	1142.0	888.4	1454.0
0.0200	1317.0	1404.0	1394.0	1044.0	1806.0
0.0100	1554.0	1697.0	1676.0	1206.0	2200.0
0.0050	1809.0	2027.0	1993.0	1376.0	2640.0
0.0020	2176.0	2524.0	2474.0	1615.0	3297.0
0.6667	301.8	(1.50-year flood)			
0.4292	430.5	(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
1959	240.0		1980	390.0	
1960	285.0		1981	520.0	
1961	230.0		1982	420.0	
1962	140.0		1983	1050.0	
1963	115.0		1984	395.0	
1964	259.0		1985	420.0	
1965	185.0		1986	660.0	
1966	190.0		1987	510.0	
1967	210.0		1988	450.0	
1968	210.0		1989	470.0	
1969	290.0		1990	600.0	
1970	310.0		1991	580.0	
1971	150.0		1992	410.0	
1972	680.0		1993	450.0	
1973	640.0		1994	615.0	
1974	250.0		1995	500.0	
1975	275.0		1996	490.0	
1976	350.0		1997	1100.0	
1977	400.0		1998	570.0	
1978	360.0		1999	1040.0	
1979	255.0		2000	1850.0	

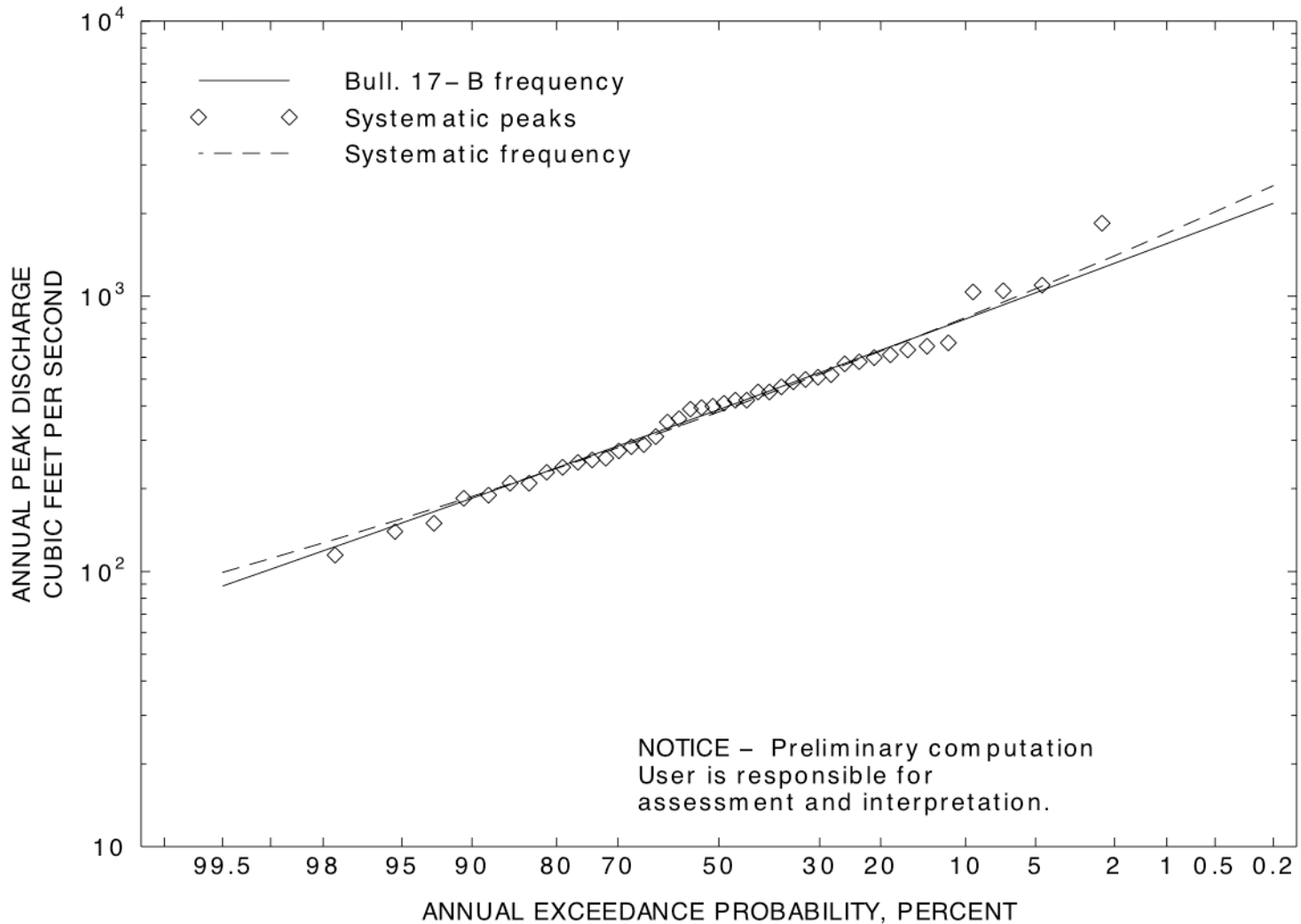
Explanation of peak discharge qualification codes

PEAKFQ	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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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
2000	1850.0	0.0233	0.0233
1997	1100.0	0.0465	0.0465
1983	1050.0	0.0698	0.0698
1999	1040.0	0.0930	0.0930
1972	680.0	0.1163	0.1163
1986	660.0	0.1395	0.1395
1973	640.0	0.1628	0.1628
1994	615.0	0.1860	0.1860
1990	600.0	0.2093	0.2093
1991	580.0	0.2326	0.2326
1998	570.0	0.2558	0.2558
1981	520.0	0.2791	0.2791
1987	510.0	0.3023	0.3023
1995	500.0	0.3256	0.3256
1996	490.0	0.3488	0.3488
1989	470.0	0.3721	0.3721
1988	450.0	0.3953	0.3953
1993	450.0	0.4186	0.4186
1982	420.0	0.4419	0.4419
1985	420.0	0.4651	0.4651
1992	410.0	0.4884	0.4884
1977	400.0	0.5116	0.5116
1984	395.0	0.5349	0.5349
1980	390.0	0.5581	0.5581
1978	360.0	0.5814	0.5814
1976	350.0	0.6047	0.6047
1970	310.0	0.6279	0.6279
1969	290.0	0.6512	0.6512
1960	285.0	0.6744	0.6744
1975	275.0	0.6977	0.6977
1964	259.0	0.7209	0.7209
1979	255.0	0.7442	0.7442
1974	250.0	0.7674	0.7674
1959	240.0	0.7907	0.7907
1961	230.0	0.8140	0.8140
1967	210.0	0.8372	0.8372
1968	210.0	0.8605	0.8605
1966	190.0	0.8837	0.8837
1965	185.0	0.9070	0.9070
1971	150.0	0.9302	0.9302
1962	140.0	0.9535	0.9535
1963	115.0	0.9767	0.9767



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