

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

Station - 05393640 LITTLE PINE CREEK NEAR IRMA, WI
 2002 MAR 13 09:03:01

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

Number of peaks in record	=	30
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	30
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.206
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	34.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		357.4

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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	2.0862	0.2147	-0.903
BULL.17B ESTIMATE	34.3	0.9667	2.1018	0.1775	0.014

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	--	22.7	--	--	--
0.9900	--	28.2	--	--	--
0.9500	64.6	48.6	62.5	51.4	76.2
0.9000	74.9	62.9	73.3	61.4	86.8
0.8000	89.6	83.4	88.6	76.0	102.1
0.5000	126.3	131.2	126.3	111.4	143.2
0.2000	178.3	186.0	180.2	156.4	210.2
0.1000	213.6	215.0	218.2	184.3	260.5
0.0400	259.0	244.4	269.3	218.5	329.5
0.0200	293.5	262.0	310.1	243.4	384.4
0.0100	328.5	276.8	353.5	268.0	442.1
0.0050	364.2	289.2	400.1	292.6	502.8
0.0020	412.7	302.7	467.5	325.2	588.1
0.6667	105.9	(1.50-year flood)			
0.4292	135.8	(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
1970	75.0		1985	158.0	
1971	160.0		1986	165.0	
1972	120.0		1987	25.0	
1973	225.0		1988	104.0	
1974	100.0		1989	74.0	
1975	116.0		1990	132.0	
1976	140.0		1991	175.0	
1977	66.0		1992	97.0	
1978	119.0		1993	138.0	
1979	272.0		1994	180.0	
1980	108.0		1995	60.0	
1981	310.0		1996	207.0	
1982	145.0		1997	176.0	
1983	118.0		1998	121.0	
1984	88.0		1999	92.0	

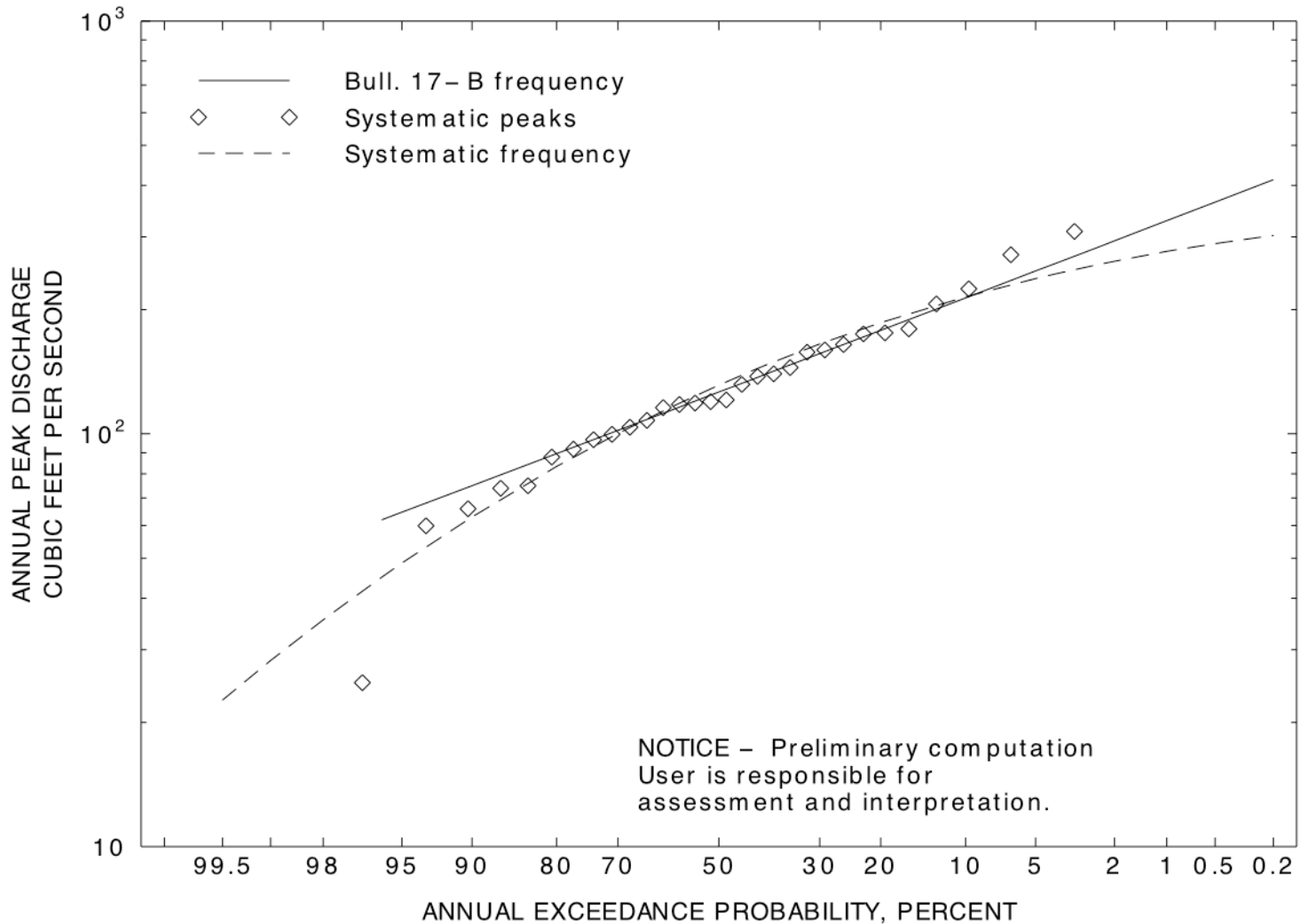
Explanation of peak discharge qualification codes

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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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1981	310.0	0.0323	0.0323
1979	272.0	0.0645	0.0645
1973	225.0	0.0968	0.0968
1996	207.0	0.1290	0.1290
1994	180.0	0.1613	0.1613
1997	176.0	0.1935	0.1935
1991	175.0	0.2258	0.2258
1986	165.0	0.2581	0.2581
1971	160.0	0.2903	0.2903
1985	158.0	0.3226	0.3226
1982	145.0	0.3548	0.3548
1976	140.0	0.3871	0.3871
1993	138.0	0.4194	0.4194
1990	132.0	0.4516	0.4516
1998	121.0	0.4839	0.4839
1972	120.0	0.5161	0.5161
1978	119.0	0.5484	0.5484
1983	118.0	0.5806	0.5806
1975	116.0	0.6129	0.6129
1980	108.0	0.6452	0.6452
1988	104.0	0.6774	0.6774
1974	100.0	0.7097	0.7097
1992	97.0	0.7419	0.7419
1999	92.0	0.7742	0.7742
1984	88.0	0.8065	0.8065
1970	75.0	0.8387	0.8387
1989	74.0	0.8710	0.8710
1977	66.0	0.9032	0.9032
1995	60.0	0.9355	0.9355
1987	25.0	0.9677	0.9677



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