

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

Station - 05391950 SQUAW CREEK NEAR HARRISON, 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	=	31
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	31
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.178
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.	8.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	73.7

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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	1.3961	0.1829	-0.068
BULL.17B ESTIMATE	0.0	1.0000	1.3961	0.1829	-0.108

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	8.1	8.2	7.3	5.8	10.1
0.9900	9.0	9.1	8.4	6.7	11.2
0.9500	12.3	12.4	11.9	9.7	14.6
0.9000	14.4	14.5	14.1	11.8	16.8
0.8000	17.5	17.5	17.3	14.8	20.0
0.5000	25.1	25.0	25.1	22.1	28.5
0.2000	35.6	35.5	35.9	31.1	42.0
0.1000	42.5	42.6	43.3	36.6	51.9
0.0400	51.2	51.5	53.1	43.2	65.0
0.0200	57.7	58.2	60.6	47.9	75.3
0.0100	64.1	64.9	68.5	52.4	85.8
0.0050	70.6	71.7	76.7	56.9	96.6
0.0020	79.2	80.8	88.3	62.8	111.5
0.6667	20.9	(1.50-year flood)			
0.4292	27.0	(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	19.0		1986	40.0	
1971	29.0		1987	51.0	
1972	14.0		1988	21.0	
1973	26.0		1989	21.0	
1974	14.0		1990	30.0	
1975	18.0		1991	26.0	
1976	23.0		1992	34.0	
1977	24.0		1993	21.0	
1978	14.0		1994	45.0	
1979	38.0		1995	11.0	
1980	29.0		1996	22.0	
1981	34.0		1997	18.0	
1982	38.0		1998	12.0	
1983	46.0		1999	19.0	
1984	50.0		2000	21.4	
1985	31.0				

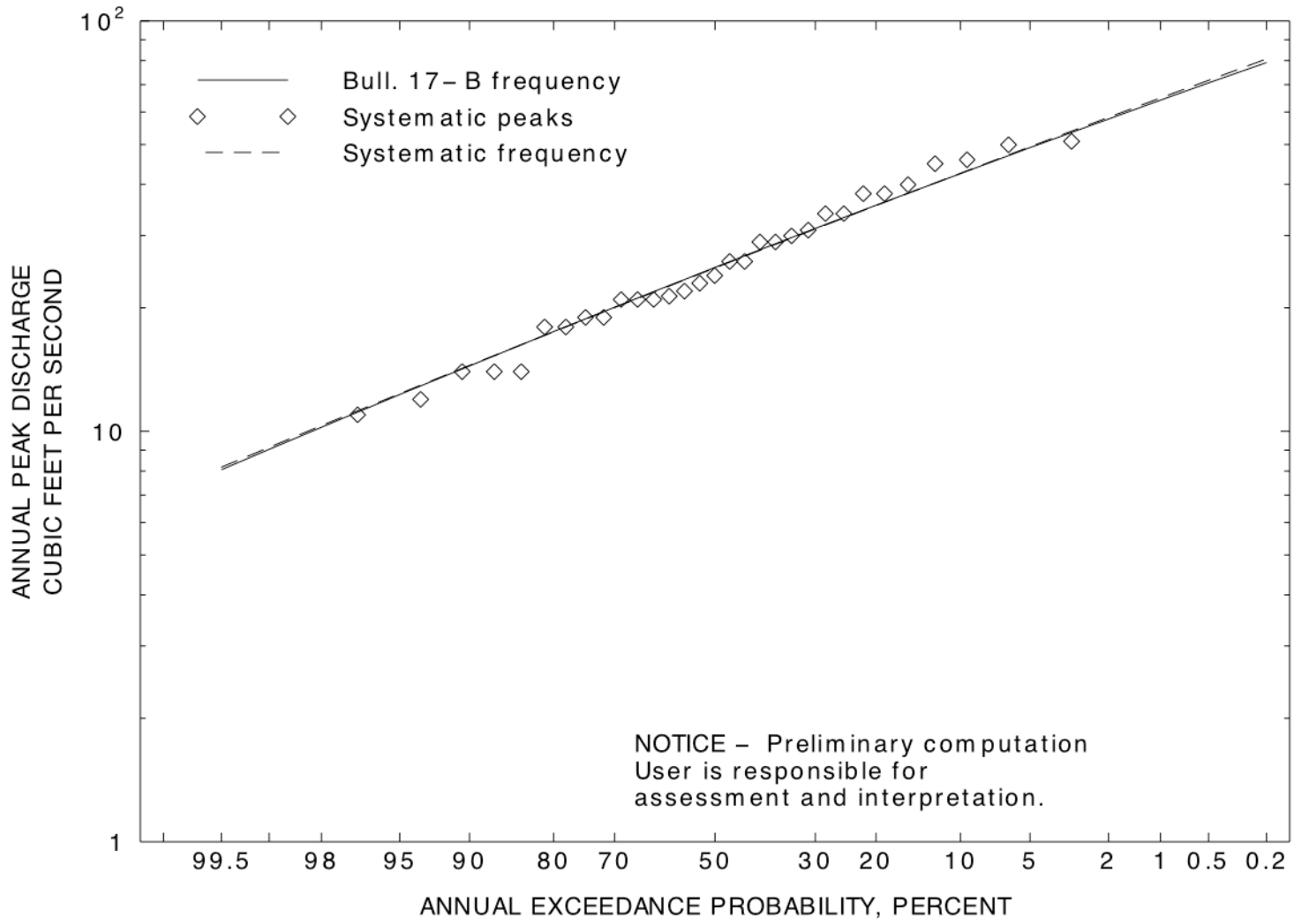
Explanation of peak discharge qualification codes

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
1987	51.0	0.0312	0.0312
1984	50.0	0.0625	0.0625
1983	46.0	0.0938	0.0938
1994	45.0	0.1250	0.1250
1986	40.0	0.1562	0.1562
1979	38.0	0.1875	0.1875
1982	38.0	0.2188	0.2188
1981	34.0	0.2500	0.2500
1992	34.0	0.2812	0.2812
1985	31.0	0.3125	0.3125
1990	30.0	0.3438	0.3438
1971	29.0	0.3750	0.3750
1980	29.0	0.4062	0.4062
1973	26.0	0.4375	0.4375
1991	26.0	0.4688	0.4688
1977	24.0	0.5000	0.5000
1976	23.0	0.5312	0.5312
1996	22.0	0.5625	0.5625
2000	21.4	0.5938	0.5938
1988	21.0	0.6250	0.6250
1989	21.0	0.6562	0.6562
1993	21.0	0.6875	0.6875
1970	19.0	0.7188	0.7188
1999	19.0	0.7500	0.7500
1975	18.0	0.7812	0.7812
1997	18.0	0.8125	0.8125
1972	14.0	0.8438	0.8438
1974	14.0	0.8750	0.8750
1978	14.0	0.9062	0.9062
1998	12.0	0.9375	0.9375
1995	11.0	0.9688	0.9688



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