

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

Station - 05403520 WEBSTER CREEK AT NEW LISBON, WI
 2002 MAR 13 09:03:09

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	=	-0.386
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	23.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1054.5

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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	2.2416	0.3319	-1.177
BULL.17B ESTIMATE	23.8	0.9697	2.2570	0.3014	-0.710

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	--	10.8	--	--	--
0.9900	--	15.9	--	--	--
0.9500	51.1	40.6	47.5	34.4	67.8
0.9000	71.6	62.6	68.6	51.8	91.4
0.8000	104.5	99.4	102.4	80.7	129.0
0.5000	196.1	201.9	196.1	160.5	241.3
0.2000	327.6	332.6	331.6	264.6	427.5
0.1000	410.4	401.5	419.3	325.2	556.8
0.0400	506.4	468.1	524.1	392.5	715.7
0.0200	571.1	505.4	596.3	436.4	827.3
0.0100	629.9	534.4	663.9	475.5	931.8
0.0050	683.7	557.0	726.5	510.7	1030.0
0.0020	747.9	579.5	803.3	552.0	1149.0
0.6667	144.1	(1.50-year flood)			
0.4292	221.8	(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
1961	335.0		1978	260.0	
1962	275.0		1979	195.0	
1963	145.0		1980	150.0	
1964	20.0		1981	255.0	
1965	425.0		1982	190.0	
1966	520.0		1983	265.0	
1967	175.0		1984	345.0	
1968	120.0		1985	200.0	
1969	175.0		1986	285.0	
1970	30.0		1987	225.0	
1971	135.0		1988	55.0	
1972	260.0		1989	170.0	
1973	270.0		1990	580.0	
1974	150.0		1991	97.0	
1975	210.0		1992	290.0	
1976	65.0		1993	250.0	
1977	45.0				

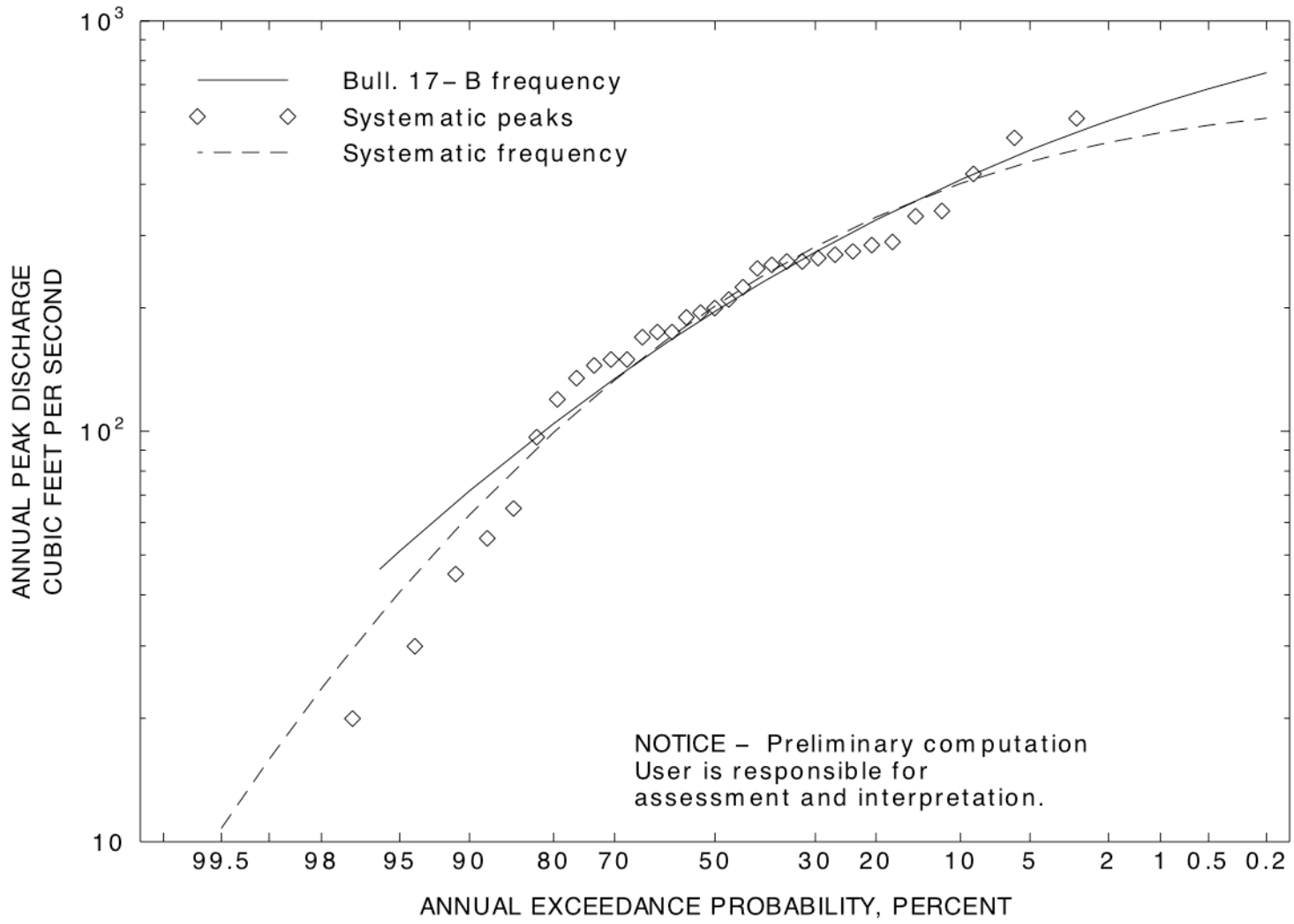
Explanation of peak discharge qualification codes

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
1990	580.0	0.0294	0.0294
1966	520.0	0.0588	0.0588
1965	425.0	0.0882	0.0882
1984	345.0	0.1176	0.1176
1961	335.0	0.1471	0.1471
1992	290.0	0.1765	0.1765
1986	285.0	0.2059	0.2059
1962	275.0	0.2353	0.2353
1973	270.0	0.2647	0.2647
1983	265.0	0.2941	0.2941
1972	260.0	0.3235	0.3235
1978	260.0	0.3529	0.3529
1981	255.0	0.3824	0.3824
1993	250.0	0.4118	0.4118
1987	225.0	0.4412	0.4412
1975	210.0	0.4706	0.4706
1985	200.0	0.5000	0.5000
1979	195.0	0.5294	0.5294
1982	190.0	0.5588	0.5588
1967	175.0	0.5882	0.5882
1969	175.0	0.6176	0.6176
1989	170.0	0.6471	0.6471
1974	150.0	0.6765	0.6765
1980	150.0	0.7059	0.7059
1963	145.0	0.7353	0.7353
1971	135.0	0.7647	0.7647
1968	120.0	0.7941	0.7941
1991	97.0	0.8235	0.8235
1976	65.0	0.8529	0.8529
1988	55.0	0.8824	0.8824
1977	45.0	0.9118	0.9118
1970	30.0	0.9412	0.9412
1964	20.0	0.9706	0.9706



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