

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

Station - 04081900 SAWYER CREEK AT OSHKOSH, WI  
 2002 MAR 13 09:02:35

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	37
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	37
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.352
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	100.0
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.	1	100.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		77.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		3985.3

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 2002 MAR 13 09:02:35

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	100.0	0.9730	2.7310	0.3305	-0.175
BULL.17B ESTIMATE	100.0	0.9730	2.7310	0.3305	-0.234

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
0.9500	146.6	148.4	138.4	99.6	195.0
0.9000	199.5	200.3	192.6	143.6	256.5
0.8000	286.6	285.8	281.6	218.8	357.3
0.5000	554.4	550.3	554.4	450.0	684.7
0.2000	1029.0	1027.0	1044.0	824.0	1351.0
0.1000	1398.0	1406.0	1438.0	1092.0	1928.0
0.0400	1915.0	1946.0	2012.0	1446.0	2801.0
0.0200	2332.0	2389.0	2495.0	1719.0	3547.0
0.0100	2771.0	2864.0	3025.0	1998.0	4369.0
0.0050	3234.0	3372.0	3608.0	2284.0	5268.0
0.0020	3882.0	4094.0	4470.0	2674.0	6577.0
0.6667	397.6	( 1.50-year flood )			
0.4292	635.2	( 2.33-year flood )			

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 2002 MAR 13 09:02:35

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	130.0		1981	660.0	
1962	1050.0		1982	650.0	
1963	780.0		1983	330.0	
1964	175.0		1984	660.0	
1965	470.0		1985	880.0	
1966	670.0		1986	2350.0	
1967	175.0		1987	400.0	
1968	200.0		1988	425.0	
1969	950.0		1989	690.0	
1970	175.0		1990	1650.0	
1971	1500.0		1991	330.0	
1973	395.0		1992	210.0	
1974	375.0		1993	1700.0	
1975	625.0		1994	820.0	
1976	560.0		1995	230.0	
1977	100.0	L	1996	940.0	
1978	1450.0		1997	680.0	
1979	1230.0		1998	940.0	
1980	245.0				

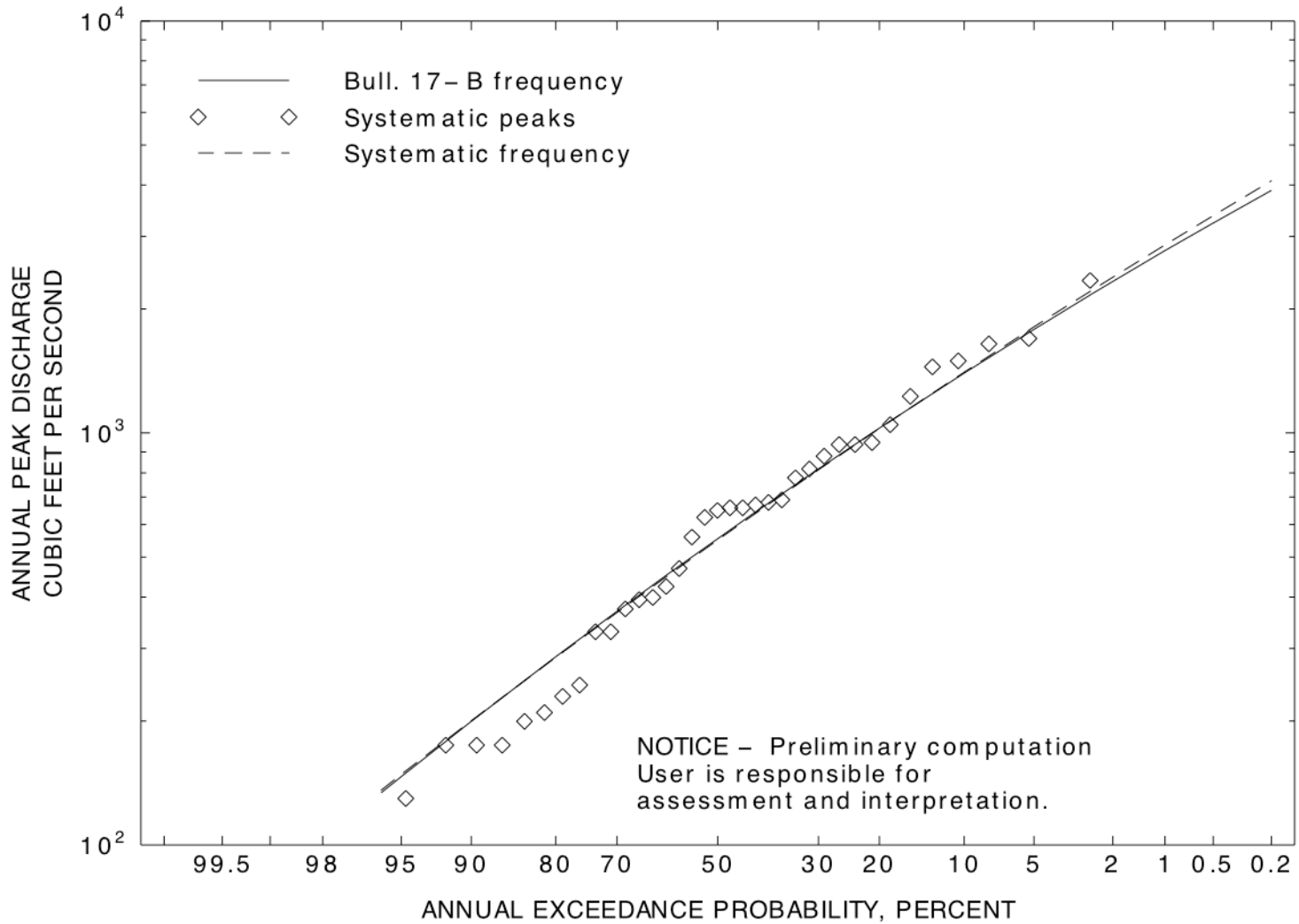
Explanation of peak discharge qualification codes

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 09:02:35

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1986	2350.0	0.0263	0.0263
1993	1700.0	0.0526	0.0526
1990	1650.0	0.0789	0.0789
1971	1500.0	0.1053	0.1053
1978	1450.0	0.1316	0.1316
1979	1230.0	0.1579	0.1579
1962	1050.0	0.1842	0.1842
1969	950.0	0.2105	0.2105
1996	940.0	0.2368	0.2368
1998	940.0	0.2632	0.2632
1985	880.0	0.2895	0.2895
1994	820.0	0.3158	0.3158
1963	780.0	0.3421	0.3421
1989	690.0	0.3684	0.3684
1997	680.0	0.3947	0.3947
1966	670.0	0.4211	0.4211
1981	660.0	0.4474	0.4474
1984	660.0	0.4737	0.4737
1982	650.0	0.5000	0.5000
1975	625.0	0.5263	0.5263
1976	560.0	0.5526	0.5526
1965	470.0	0.5789	0.5789
1988	425.0	0.6053	0.6053
1987	400.0	0.6316	0.6316
1973	395.0	0.6579	0.6579
1974	375.0	0.6842	0.6842
1983	330.0	0.7105	0.7105
1991	330.0	0.7368	0.7368
1980	245.0	0.7632	0.7632
1995	230.0	0.7895	0.7895
1992	210.0	0.8158	0.8158
1968	200.0	0.8421	0.8421
1964	175.0	0.8684	0.8684
1967	175.0	0.8947	0.8947
1970	175.0	0.9211	0.9211
1961	130.0	0.9474	0.9474
1977	100.0	--	--



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