

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

Station - 05333100 LITTLE FROG CREEK NEAR MINONG, WI  
 2002 MAR 13 09:02:45

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	32
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	32
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.235
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.	29.7
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1252.3

Station - 05333100 LITTLE FROG CREEK NEAR MINONG, WI  
 2002 MAR 13 09:02:45

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.2851	0.3136	-0.379
BULL.17B ESTIMATE	0.0	1.0000	2.2851	0.3136	-0.324

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	24.1	23.2	19.8	13.3	36.2
0.9900	30.3	29.5	26.0	17.6	44.0
0.9500	55.2	54.7	51.7	36.8	73.8
0.9000	74.8	74.6	71.8	53.2	96.5
0.8000	106.5	106.8	104.4	80.6	133.2
0.5000	200.4	201.8	200.4	162.0	248.9
0.2000	357.1	357.4	362.7	285.0	473.2
0.1000	472.7	470.0	486.9	368.2	658.6
0.0400	627.6	618.2	660.5	473.5	926.5
0.0200	747.4	730.8	800.9	551.5	1146.0
0.0100	869.7	844.1	950.6	628.9	1380.0
0.0050	994.6	958.1	1110.0	705.8	1628.0
0.0020	1164.0	1110.0	1338.0	807.2	1976.0
0.6667	146.0	( 1.50-year flood )			
0.4292	228.1	( 2.33-year flood )			

Station - 05333100 LITTLE FROG CREEK NEAR MINONG, WI  
2002 MAR 13 09:02:45

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	260.0		1977	118.0	
1962	116.0		1978	424.0	
1963	60.0		1979	150.0	
1964	188.0		1980	42.0	
1965	190.0		1981	330.0	
1966	580.0		1982	600.0	
1967	465.0		1983	190.0	
1968	105.0		1984	410.0	
1969	108.0		1985	195.0	
1970	73.0		1986	515.0	
1971	318.0		1987	40.0	
1972	480.0		1988	200.0	
1973	124.0		1989	130.0	
1974	305.0		1990	180.0	
1975	144.0		1991	190.0	
1976	318.0		1993	200.0	

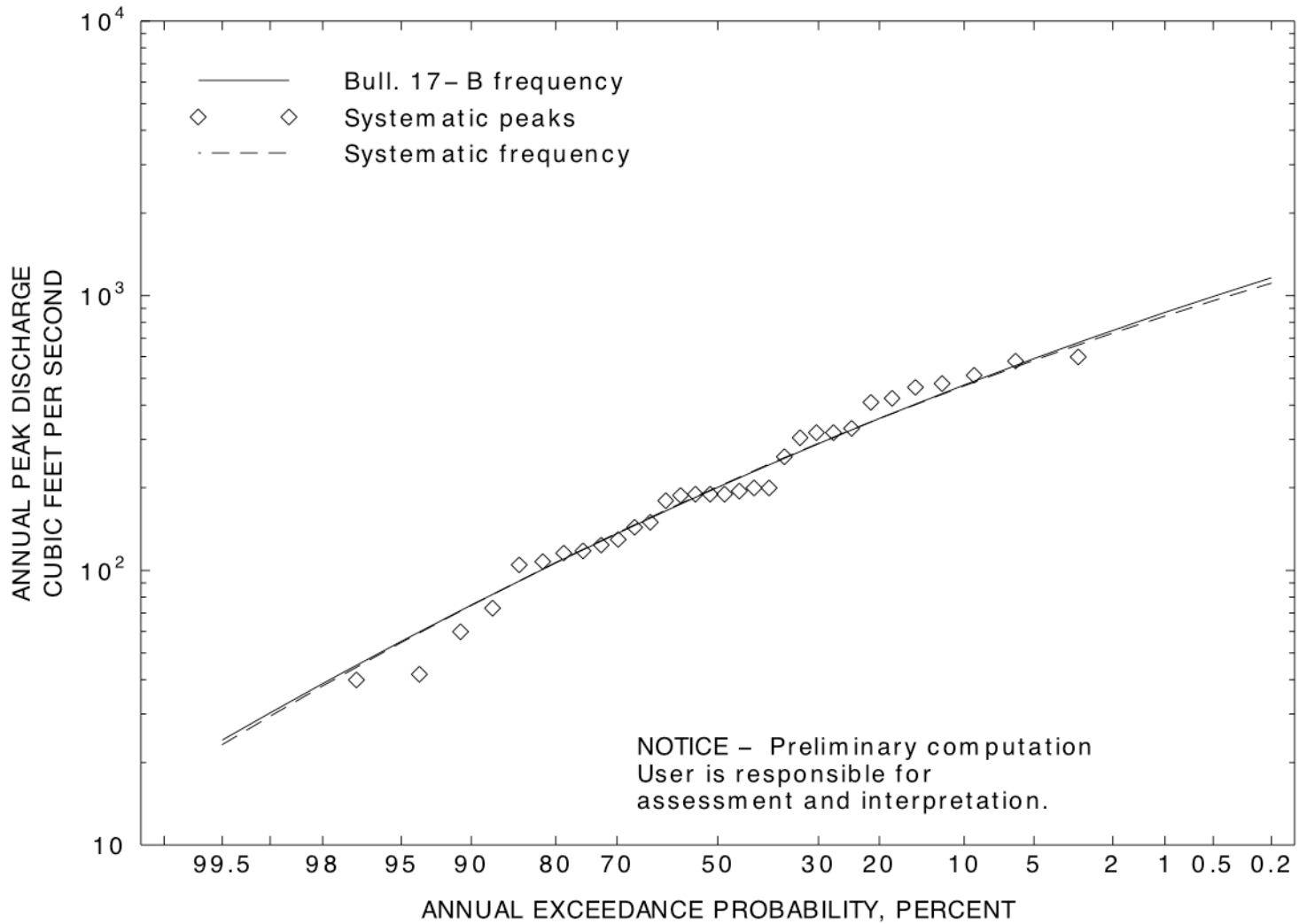
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	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

Station - 05333100 LITTLE FROG CREEK NEAR MINONG, WI  
2002 MAR 13 09:02:45

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1982	600.0	0.0303	0.0303
1966	580.0	0.0606	0.0606
1986	515.0	0.0909	0.0909
1972	480.0	0.1212	0.1212
1967	465.0	0.1515	0.1515
1978	424.0	0.1818	0.1818
1984	410.0	0.2121	0.2121
1981	330.0	0.2424	0.2424
1971	318.0	0.2727	0.2727
1976	318.0	0.3030	0.3030
1974	305.0	0.3333	0.3333
1961	260.0	0.3636	0.3636
1988	200.0	0.3939	0.3939
1993	200.0	0.4242	0.4242
1985	195.0	0.4545	0.4545
1965	190.0	0.4848	0.4848
1983	190.0	0.5152	0.5152
1991	190.0	0.5455	0.5455
1964	188.0	0.5758	0.5758
1990	180.0	0.6061	0.6061
1979	150.0	0.6364	0.6364
1975	144.0	0.6667	0.6667
1989	130.0	0.6970	0.6970
1973	124.0	0.7273	0.7273
1977	118.0	0.7576	0.7576
1962	116.0	0.7879	0.7879
1969	108.0	0.8182	0.8182
1968	105.0	0.8485	0.8485
1970	73.0	0.8788	0.8788
1963	60.0	0.9091	0.9091
1980	42.0	0.9394	0.9394
1987	40.0	0.9697	0.9697



Station - 05333100 LITTLE FROG CREEK NEAR MINONG, WI  
 2002 MAR 13 09:02:45