

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

Station - 05390140 MUSKRAT CREEK AT CONOVER, WI  
 2002 MAR 13 09:02:59

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	23
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	23
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.110
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	20.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		153.7

Station - 05390140 MUSKRAT CREEK AT CONOVER, WI  
 2002 MAR 13 09:02:59

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	1.7769	0.1874	-0.618
BULL.17B ESTIMATE	20.8	0.9565	1.7884	0.1647	-0.131

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	--	15.4	--	--	--
0.9900	--	18.1	--	--	--
0.9500	32.5	27.5	31.0	25.1	38.6
0.9000	37.6	33.7	36.6	30.2	43.9
0.8000	44.8	42.4	44.2	37.4	51.4
0.5000	61.9	62.5	61.9	54.2	70.9
0.2000	84.7	86.6	85.8	73.8	101.4
0.1000	99.3	100.3	101.8	85.2	123.3
0.0400	117.3	115.3	122.5	98.5	152.1
0.0200	130.3	125.1	138.5	107.7	174.0
0.0100	143.1	133.9	155.1	116.6	196.3
0.0050	155.8	141.8	172.5	125.1	219.1
0.0020	172.3	151.2	196.9	136.1	249.9
0.6667	52.5	( 1.50-year flood )			
0.4292	66.3	( 2.33-year flood )			

Station - 05390140 MUSKRAT CREEK AT CONOVER, WI  
2002 MAR 13 09:02:59

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	62.0		1982	105.0	
1971	122.0		1983	66.0	
1972	57.0		1984	49.0	
1973	81.0		1985	62.0	
1974	37.0		1986	96.0	
1975	66.0		1987	36.0	
1976	61.0		1988	58.0	
1977	30.0		1989	52.0	
1978	54.0		1990	20.0	
1979	90.0		1991	42.0	
1980	63.0		1993	80.0	
1981	105.0				

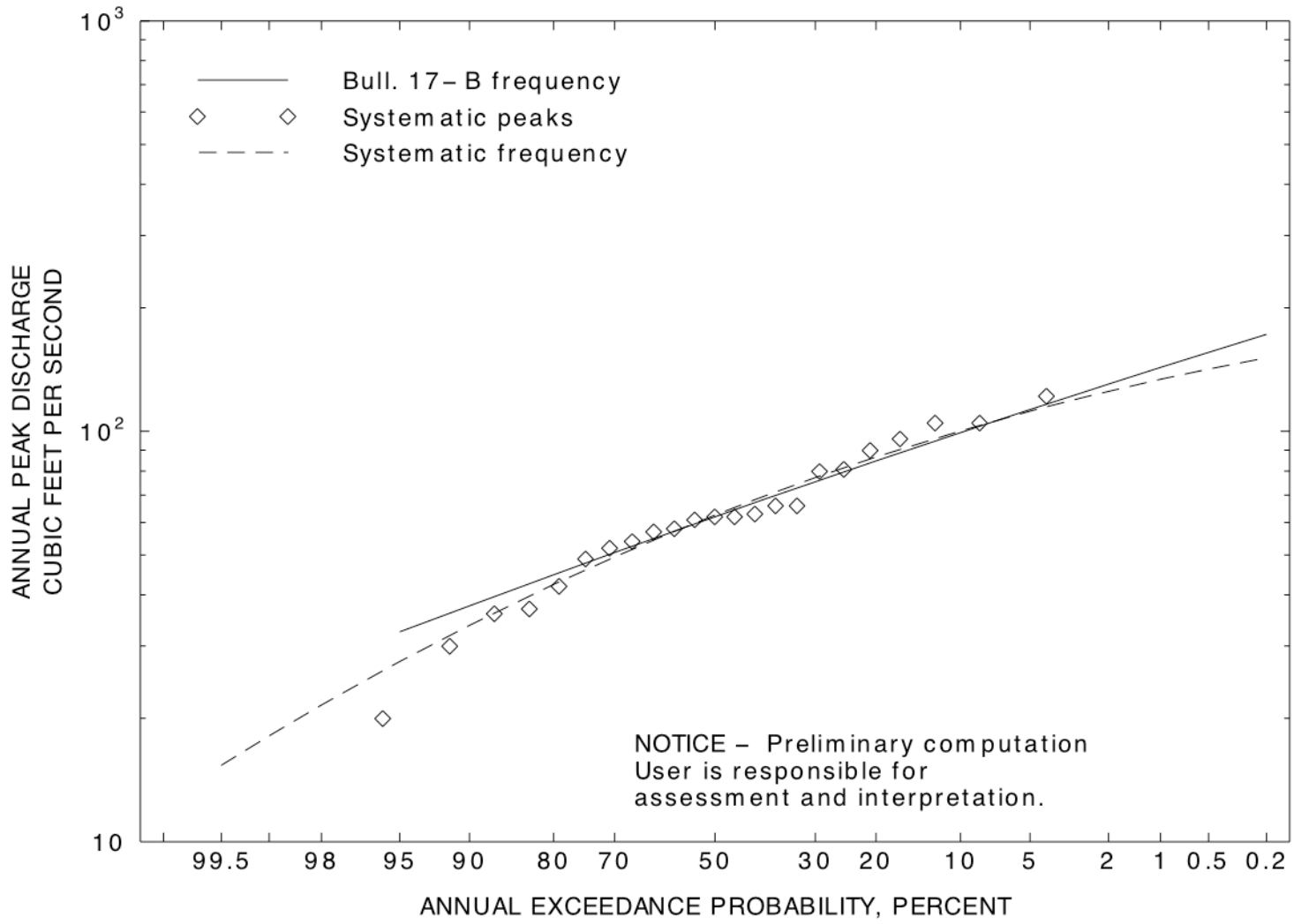
Explanation of peak discharge qualification codes

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 - 05390140 MUSKRAT CREEK AT CONOVER, WI  
2002 MAR 13 09:02:59

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1971	122.0	0.0417	0.0417
1981	105.0	0.0833	0.0833
1982	105.0	0.1250	0.1250
1986	96.0	0.1667	0.1667
1979	90.0	0.2083	0.2083
1973	81.0	0.2500	0.2500
1993	80.0	0.2917	0.2917
1975	66.0	0.3333	0.3333
1983	66.0	0.3750	0.3750
1980	63.0	0.4167	0.4167
1970	62.0	0.4583	0.4583
1985	62.0	0.5000	0.5000
1976	61.0	0.5417	0.5417
1988	58.0	0.5833	0.5833
1972	57.0	0.6250	0.6250
1978	54.0	0.6667	0.6667
1989	52.0	0.7083	0.7083
1984	49.0	0.7500	0.7500
1991	42.0	0.7917	0.7917
1974	37.0	0.8333	0.8333
1987	36.0	0.8750	0.8750
1977	30.0	0.9167	0.9167
1990	20.0	0.9583	0.9583



Station - 05390140 MUSKRAT CREEK AT CONOVER, WI  
2002 MAR 13 09:02:59