

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

Station - 05407400 MORRIS CREEK TRIBUTARY NEAR NORWALK, WI  
 2002 MAR 13 09:03:11

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	20
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	20
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.394
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	50.0
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.	2	50.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		74.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2084.4

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	50.0	0.9000	2.5429	0.3456	-0.781
BULL.17B ESTIMATE	50.0	0.9000	2.5429	0.3456	-0.580

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
0.9000	--	120.6	--	--	--
0.8000	184.5	187.4	177.6	123.2	250.5
0.5000	376.8	386.7	376.8	279.5	514.0
0.2000	690.4	689.9	708.0	506.8	1044.0
0.1000	909.4	885.0	951.6	649.6	1475.0
0.0400	1185.0	1112.0	1278.0	817.9	2070.0
0.0200	1384.0	1264.0	1527.0	934.1	2534.0
0.0100	1576.0	1401.0	1781.0	1043.0	3004.0
0.0050	1761.0	1526.0	2037.0	1144.0	3476.0
0.0020	1995.0	1672.0	2376.0	1270.0	4097.0
0.6667	264.9	( 1.50-year flood )			
0.4292	434.2	( 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
1960	950.0		1970	50.0	L
1961	700.0		1971	375.0	
1962	460.0		1972	710.0	
1963	260.0		1973	500.0	
1964	85.0		1974	200.0	
1965	540.0		1975	370.0	
1966	460.0		1977	50.0	L
1967	1060.0		1978	370.0	
1968	910.0		1979	110.0	
1969	450.0		1980	170.0	

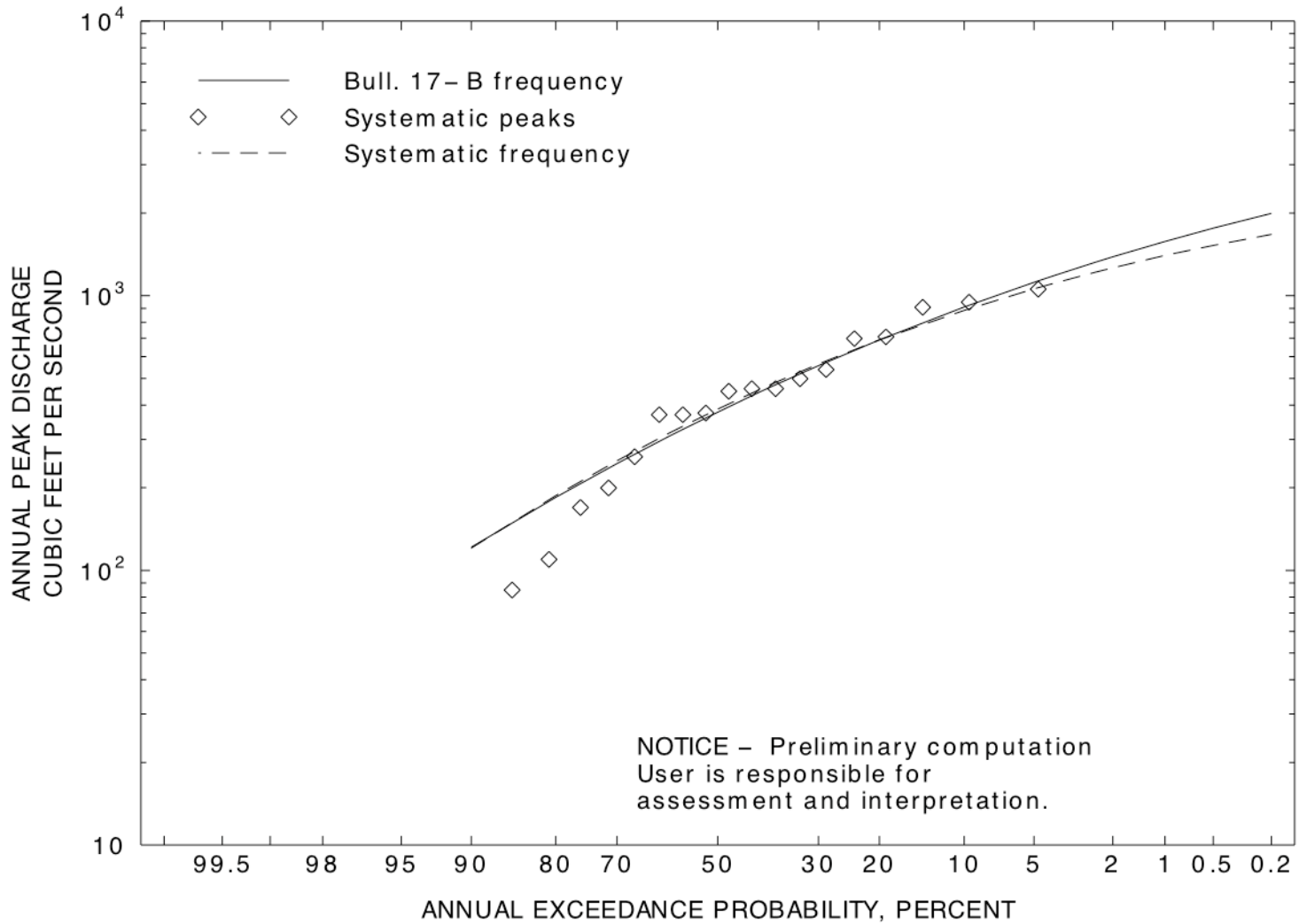
Explanation of peak discharge qualification codes

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
1967	1060.0	0.0476	0.0476
1960	950.0	0.0952	0.0952
1968	910.0	0.1429	0.1429
1972	710.0	0.1905	0.1905
1961	700.0	0.2381	0.2381
1965	540.0	0.2857	0.2857
1973	500.0	0.3333	0.3333
1962	460.0	0.3810	0.3810
1966	460.0	0.4286	0.4286
1969	450.0	0.4762	0.4762
1971	375.0	0.5238	0.5238
1975	370.0	0.5714	0.5714
1978	370.0	0.6190	0.6190
1963	260.0	0.6667	0.6667
1974	200.0	0.7143	0.7143
1980	170.0	0.7619	0.7619
1979	110.0	0.8095	0.8095
1964	85.0	0.8571	0.8571
1970	50.0	--	--
1977	50.0	--	--



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