

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

Station - 05394000 NEW WOOD RIVER NEAR MERRILL, WI
 2002 MAR 13 09:03:01

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	27
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	27
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.230
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.	300.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	4978.2

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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	3.0873	0.2421	0.095
BULL.17B ESTIMATE	0.0	1.0000	3.0873	0.2421	-0.031

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	286.2	305.7	247.3	178.2	391.7
0.9900	330.0	347.6	294.6	213.5	441.8
0.9500	486.4	496.3	461.4	347.2	615.7
0.9000	597.4	602.0	578.1	447.2	737.6
0.8000	765.4	763.0	752.9	602.6	923.5
0.5000	1226.0	1212.0	1226.0	1023.0	1470.0
0.2000	1956.0	1949.0	1988.0	1621.0	2485.0
0.1000	2493.0	2511.0	2573.0	2020.0	3327.0
0.0400	3225.0	3303.0	3416.0	2531.0	4570.0
0.0200	3805.0	3951.0	4127.0	2918.0	5622.0
0.0100	4415.0	4648.0	4918.0	3311.0	6778.0
0.0050	5055.0	5400.0	5803.0	3712.0	8046.0
0.0020	5955.0	6486.0	7147.0	4260.0	9906.0
0.6667	964.1	(1.50-year flood)			
0.4292	1354.2	(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
1953	1100.0		1967	1200.0	
1954	1110.0		1968	2400.0	
1955	916.0		1969	1745.0	
1956	1050.0		1970	560.0	
1957	615.0		1971	2170.0	
1958	530.0		1972	2290.0	
1959	1370.0		1973	2050.0	
1960	1180.0		1974	950.0	
1961	900.0		1975	1550.0	
1962	1280.0		1976	2460.0	
1963	780.0		1978	760.0	
1964	400.0		1979	3350.0	
1965	1200.0		1980	3500.0	
1966	920.0				

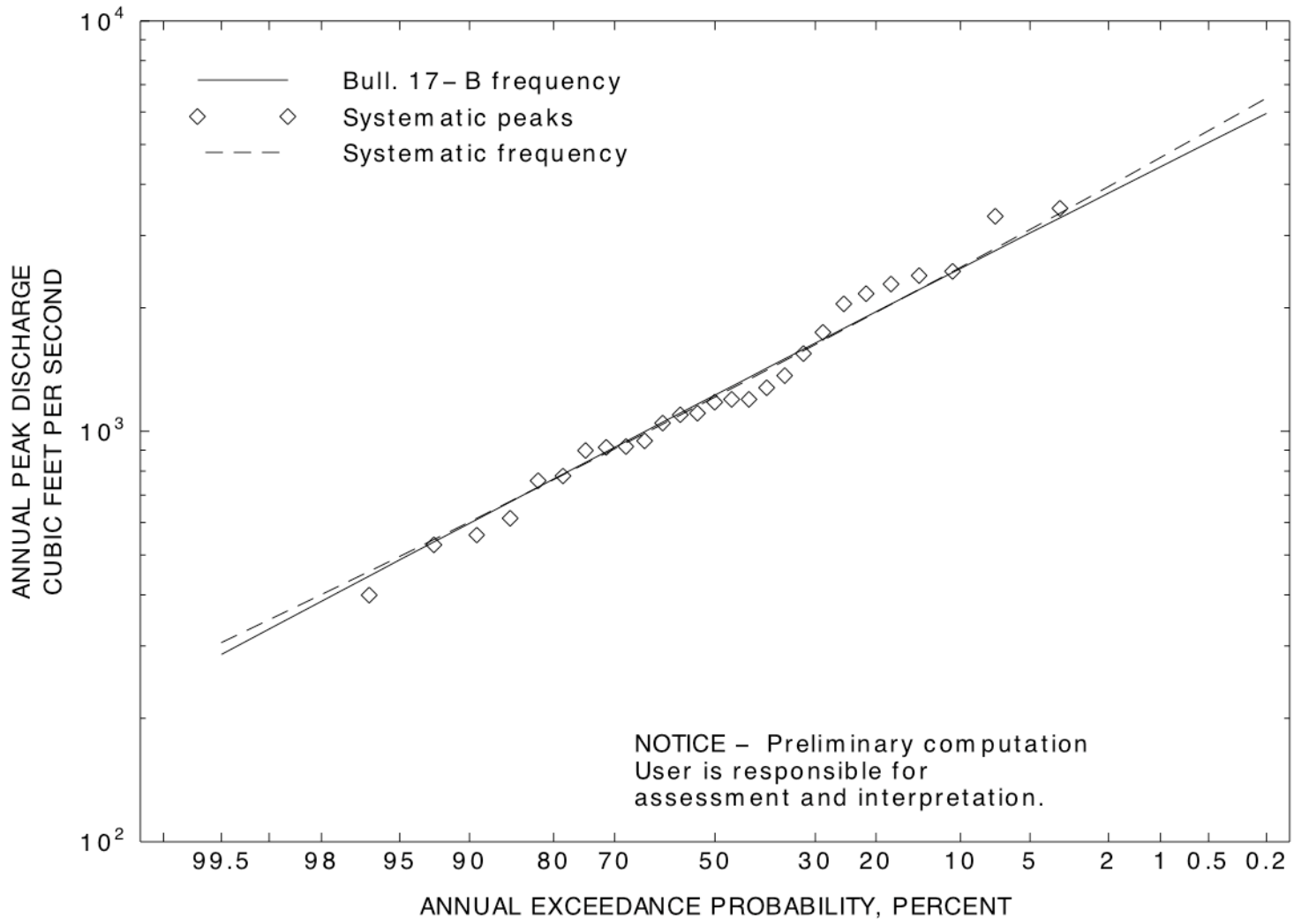
Explanation of peak discharge qualification codes

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

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1980	3500.0	0.0357	0.0357
1979	3350.0	0.0714	0.0714
1976	2460.0	0.1071	0.1071
1968	2400.0	0.1429	0.1429
1972	2290.0	0.1786	0.1786
1971	2170.0	0.2143	0.2143
1973	2050.0	0.2500	0.2500
1969	1745.0	0.2857	0.2857
1975	1550.0	0.3214	0.3214
1959	1370.0	0.3571	0.3571
1962	1280.0	0.3929	0.3929
1965	1200.0	0.4286	0.4286
1967	1200.0	0.4643	0.4643
1960	1180.0	0.5000	0.5000
1954	1110.0	0.5357	0.5357
1953	1100.0	0.5714	0.5714
1956	1050.0	0.6071	0.6071
1974	950.0	0.6429	0.6429
1966	920.0	0.6786	0.6786
1955	916.0	0.7143	0.7143
1961	900.0	0.7500	0.7500
1963	780.0	0.7857	0.7857
1978	760.0	0.8214	0.8214
1957	615.0	0.8571	0.8571
1970	560.0	0.8929	0.8929
1958	530.0	0.9286	0.9286
1964	400.0	0.9643	0.9643



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