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

Station - 04026400 SPILLERBERG CREEK NEAR CAYUGA, WI
2002 MAR 13 09:01:59

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

Number of peaks in record	=	24
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	24
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.162
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. 26.6
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE. 221.9

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2002 MAR 13 09:01:59

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	1.8856	0.1867	0.112
BULL.17B ESTIMATE	0.0	1.0000	1.8856	0.1867	-0.002

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	25.4	26.6	22.4	17.2	32.7
0.9900	28.2	29.3	25.6	19.7	35.7
0.9500	37.9	38.4	36.2	28.6	45.9
0.9000	44.3	44.5	43.1	34.8	52.6
0.8000	53.5	53.4	52.8	43.9	62.4
0.5000	76.9	76.2	76.9	66.2	89.2
0.2000	110.4	110.1	111.9	94.7	134.5
0.1000	133.3	134.0	137.1	112.3	169.5
0.0400	163.1	165.8	171.7	133.9	218.3
0.0200	185.7	190.6	199.7	149.6	257.6
0.0100	208.8	216.4	230.1	165.1	299.3
0.0050	232.4	243.4	263.2	180.5	343.6
0.0020	264.6	280.9	312.3	201.1	406.4
0.6667	63.9	(1.50-year flood)			
0.4292	83.0	(2.33-year flood)			

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2002 MAR 13 09:01:59

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1958	157.0		1970	48.0	
1959	35.0		1971	97.0	
1960	84.0		1972	105.0	
1961	44.0		1973	50.0	
1962	43.0		1974	90.0	
1963	47.0		1975	84.0	
1964	78.0		1976	82.0	
1965	76.0		1977	81.0	
1966	53.0		1978	170.0	
1967	84.0		1979	120.0	
1968	58.0		1980	83.0	
1969	85.0		1981	162.0	

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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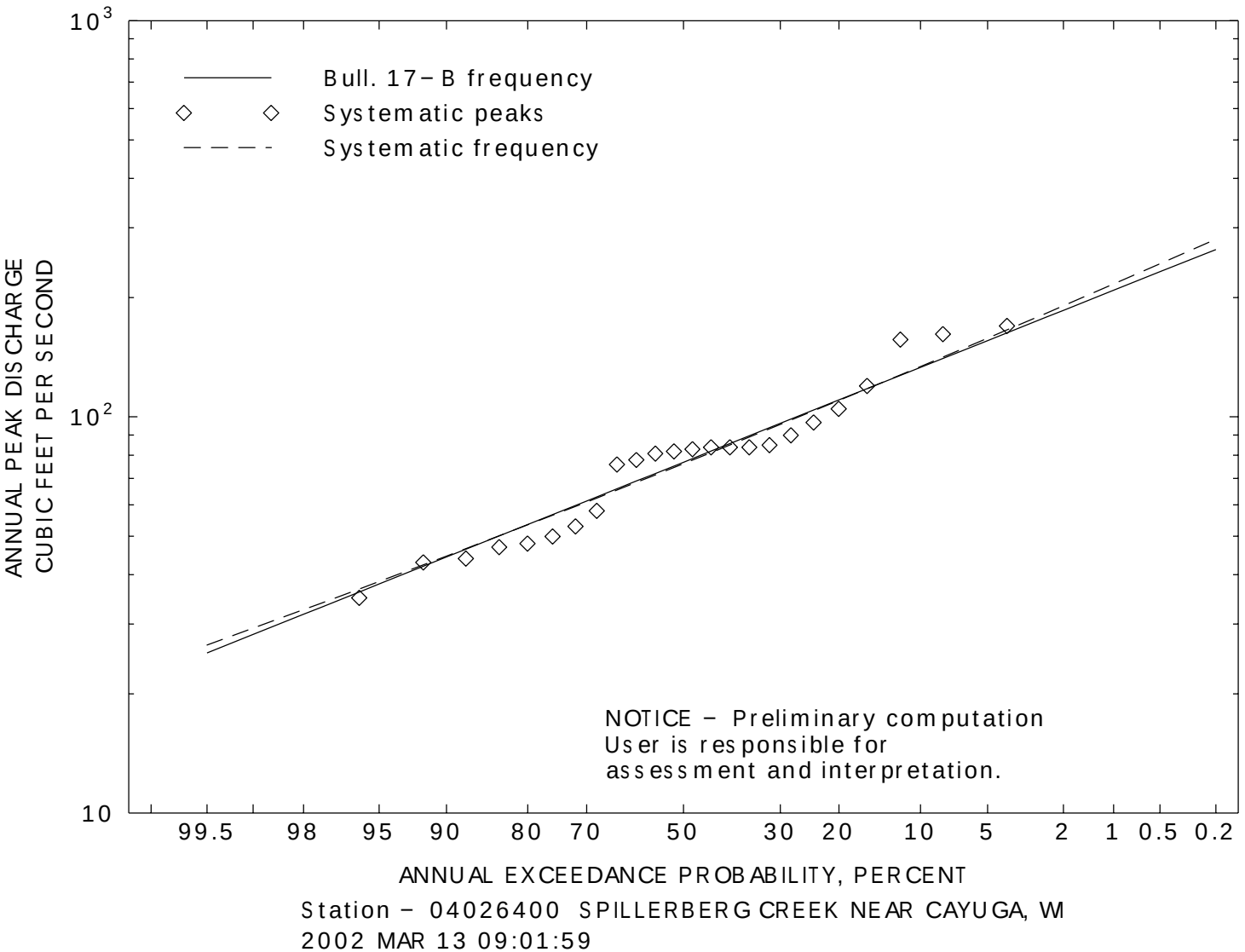
EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1978	170.0	0.0400	0.0400
1981	162.0	0.0800	0.0800
1958	157.0	0.1200	0.1200
1979	120.0	0.1600	0.1600
1972	105.0	0.2000	0.2000
1971	97.0	0.2400	0.2400
1974	90.0	0.2800	0.2800
1969	85.0	0.3200	0.3200
1960	84.0	0.3600	0.3600
1967	84.0	0.4000	0.4000
1975	84.0	0.4400	0.4400
1980	83.0	0.4800	0.4800
1976	82.0	0.5200	0.5200
1977	81.0	0.5600	0.5600
1964	78.0	0.6000	0.6000
1965	76.0	0.6400	0.6400
1968	58.0	0.6800	0.6800
1966	53.0	0.7200	0.7200
1973	50.0	0.7600	0.7600
1970	48.0	0.8000	0.8000
1963	47.0	0.8400	0.8400
1961	44.0	0.8800	0.8800
1962	43.0	0.9200	0.9200
1959	35.0	0.9600	0.9600



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