

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

Station - 05382200 FRENCH CREEK NEAR ETTRICK, 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	=	24
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	24
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.385
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	200.0
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.	3	200.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		188.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		4313.1

Station - 05382200 FRENCH CREEK NEAR ETTRICK, 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	200.0	0.8750	2.8970	0.3140	-0.231
BULL.17B ESTIMATE	200.0	0.8750	2.8970	0.3140	-0.297

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
0.8000	434.8	433.4	423.4	312.3	561.9
0.5000	817.6	811.1	817.6	637.9	1053.0
0.2000	1462.0	1460.0	1493.0	1129.0	2043.0
0.1000	1942.0	1954.0	2022.0	1460.0	2890.0
0.0400	2591.0	2637.0	2781.0	1879.0	4146.0
0.0200	3098.0	3181.0	3411.0	2190.0	5199.0
0.0100	3619.0	3749.0	4101.0	2499.0	6340.0
0.0050	4154.0	4344.0	4853.0	2807.0	7568.0
0.0020	4885.0	5170.0	5957.0	3215.0	9323.0
0.6667	595.5	(1.50-year flood)			
0.4292	930.5	(2.33-year flood)			

Station - 05382200 FRENCH CREEK NEAR ETTRICK, 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
1960	410.0		1989	643.0	
1961	520.0		1990	1590.0	
1962	550.0		1991	1460.0	
1963	315.0		1992	1430.0	
1964	310.0		1993	1480.0	
1965	530.0		1994	1440.0	
1966	480.0		1995	1790.0	
1967	1300.0		1996	658.0	
1968	1000.0		1997	650.0	
1969	200.0	L	1998	2450.0	
1970	200.0	L	1999	1410.0	
1971	200.0	L	2000	2450.0	

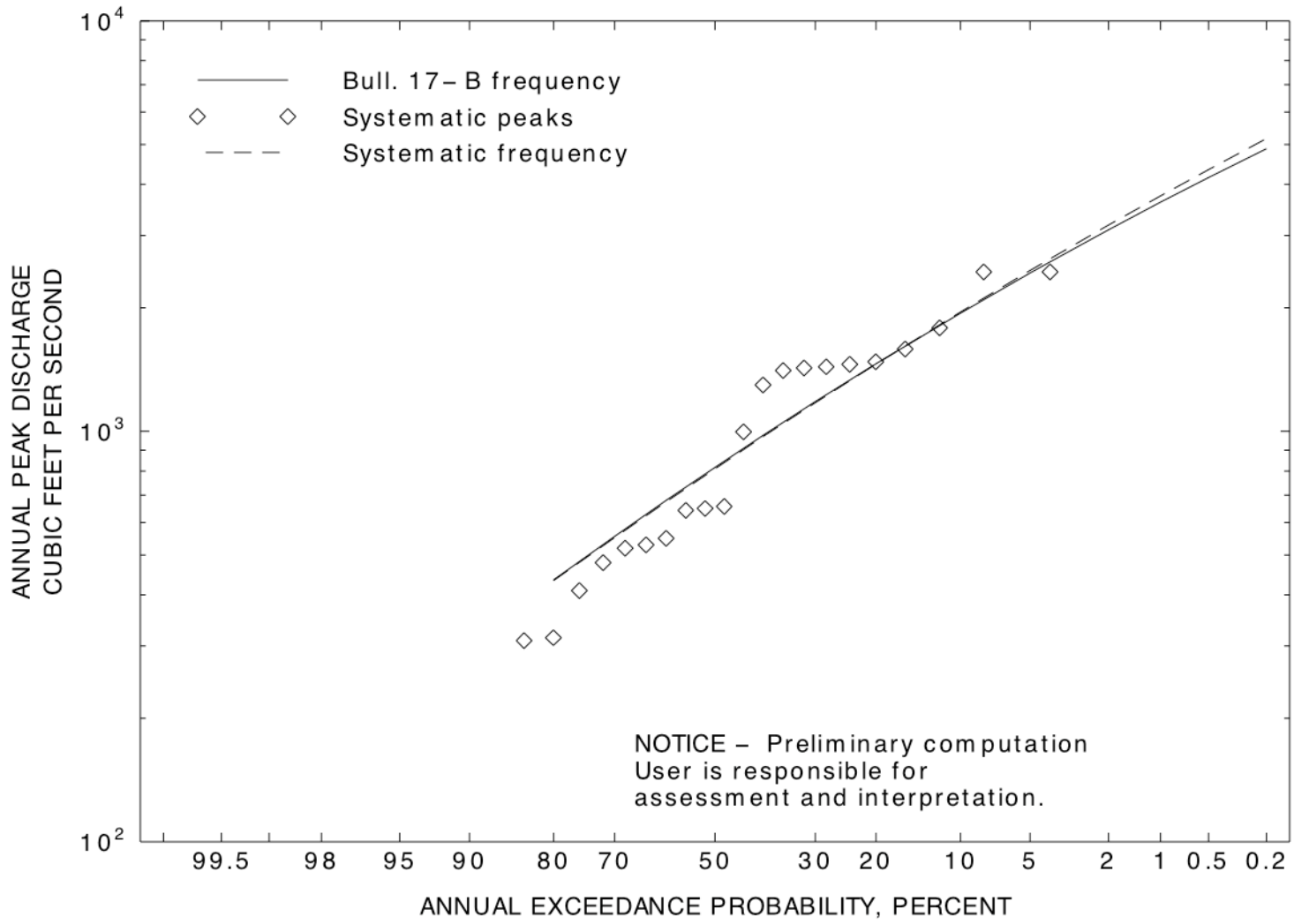
Explanation of peak discharge qualification codes

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 - 05382200 FRENCH CREEK NEAR ETTRICK, WI
2002 MAR 13 09:02:59

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1998	2450.0	0.0400	0.0400
2000	2450.0	0.0800	0.0800
1995	1790.0	0.1200	0.1200
1990	1590.0	0.1600	0.1600
1993	1480.0	0.2000	0.2000
1991	1460.0	0.2400	0.2400
1994	1440.0	0.2800	0.2800
1992	1430.0	0.3200	0.3200
1999	1410.0	0.3600	0.3600
1967	1300.0	0.4000	0.4000
1968	1000.0	0.4400	0.4400
1996	658.0	0.4800	0.4800
1997	650.0	0.5200	0.5200
1989	643.0	0.5600	0.5600
1962	550.0	0.6000	0.6000
1965	530.0	0.6400	0.6400
1961	520.0	0.6800	0.6800
1966	480.0	0.7200	0.7200
1960	410.0	0.7600	0.7600
1963	315.0	0.8000	0.8000
1964	310.0	0.8400	0.8400
1969	200.0	--	--
1970	200.0	--	--
1971	200.0	--	--



Station - 05382200 FRENCH CREEK NEAR ETRICK, WI
2002 MAR 13 09:02:59