

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

Station - 05357500 FLAMBEAU RIVER AT FLAMBEAU FLOWAGE, WI
 2002 JUL 10 11:20:47

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

Number of peaks in record	=	34
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	34
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	0.000
Standard error of generalized skew	=	0.550
Skew option	=	STATION SKEW
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.		301.8	
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		7016.9	
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	-0.130	-0.200	-1

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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	3.1629	0.2612	-0.200
BULL.17B ESTIMATE	0.0	1.0000	3.1629	0.2612	-0.200

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	276.3	276.3	239.9	174.0	380.5
0.9900	329.1	329.1	295.2	215.7	442.0
0.9500	523.6	523.6	498.7	380.0	661.1
0.9000	665.5	665.5	645.7	506.5	817.7
0.8000	883.1	883.1	870.1	705.8	1059.0
0.5000	1485.0	1485.0	1485.0	1249.0	1767.0
0.2000	2426.0	2426.0	2458.0	2022.0	3041.0
0.1000	3101.0	3101.0	3179.0	2531.0	4055.0
0.0400	3997.0	3997.0	4175.0	3170.0	5493.0
0.0200	4687.0	4687.0	4977.0	3644.0	6663.0
0.0100	5394.0	5394.0	5833.0	4116.0	7907.0
0.0050	6118.0	6118.0	6749.0	4588.0	9226.0
0.0020	7106.0	7106.0	8067.0	5216.0	11090.0
0.6667	1142.1	(1.50-year flood)			
0.4292	1653.0	(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
1928	1410.0	K	1945	2000.0	K
1929	2140.0	K	1946	964.0	K
1930	714.0	K	1947	1760.0	K
1931	616.0	K	1948	585.0	K
1932	727.0	K	1949	1250.0	K
1933	643.0	K	1950	1580.0	K
1934	565.0	K	1951	2460.0	K
1935	2300.0	K	1952	3440.0	K
1936	2600.0	K	1953	2200.0	K
1937	630.0	K	1954	3420.0	K
1938	2520.0	K	1955	1910.0	K
1939	3440.0	K	1956	1180.0	K
1940	1740.0	K	1957	761.0	K
1941	1030.0	K	1958	755.0	K
1942	3260.0	K	1959	724.0	K
1943	3000.0	K	1960	2190.0	K
1944	2200.0	K	1961	1530.0	K

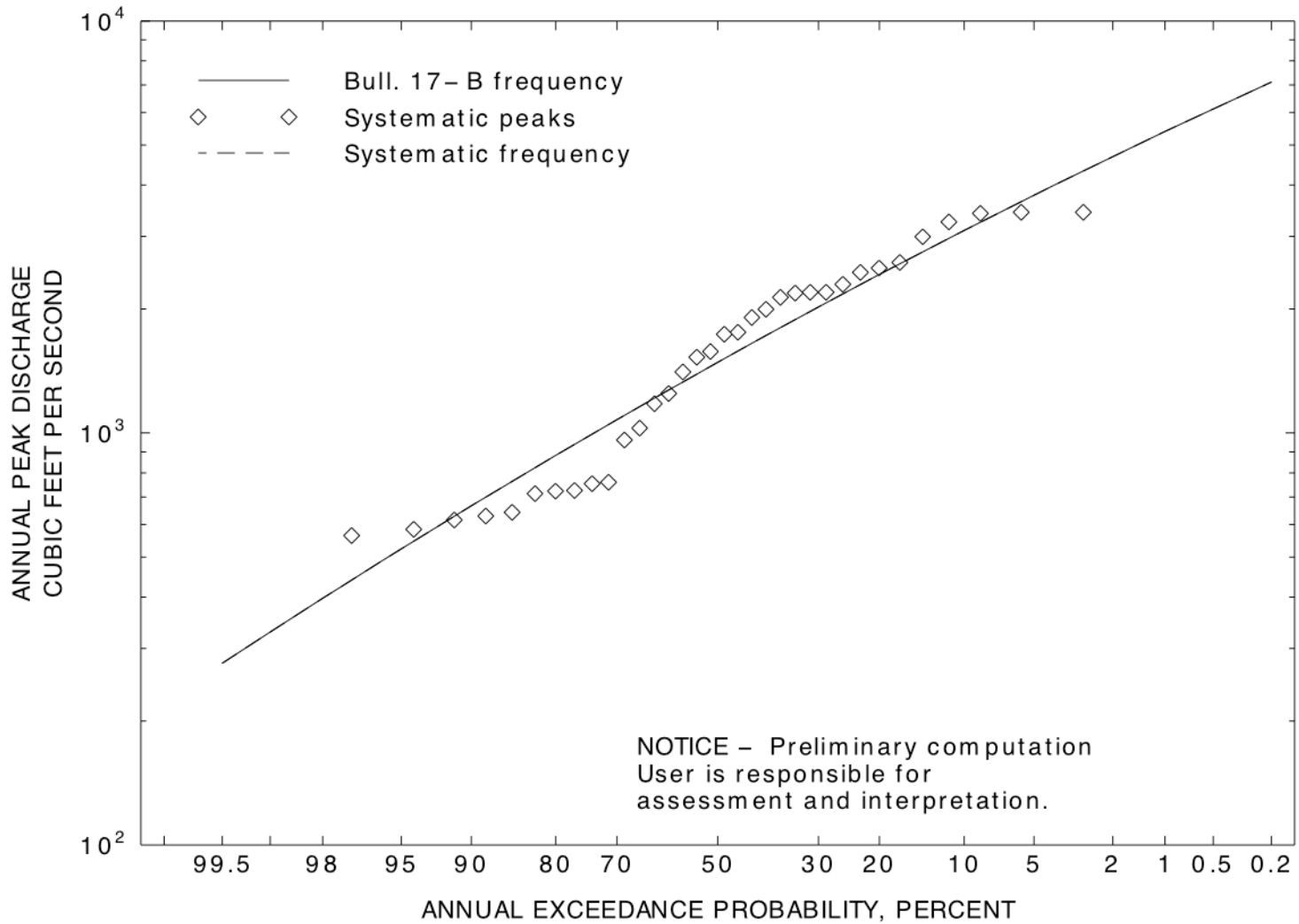
Explanation of peak discharge qualification codes

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
1939	3440.0	0.0286	0.0286
1952	3440.0	0.0571	0.0571
1954	3420.0	0.0857	0.0857
1942	3260.0	0.1143	0.1143
1943	3000.0	0.1429	0.1429
1936	2600.0	0.1714	0.1714
1938	2520.0	0.2000	0.2000
1951	2460.0	0.2286	0.2286
1935	2300.0	0.2571	0.2571
1944	2200.0	0.2857	0.2857
1953	2200.0	0.3143	0.3143
1960	2190.0	0.3429	0.3429
1929	2140.0	0.3714	0.3714
1945	2000.0	0.4000	0.4000
1955	1910.0	0.4286	0.4286
1947	1760.0	0.4571	0.4571
1940	1740.0	0.4857	0.4857
1950	1580.0	0.5143	0.5143
1961	1530.0	0.5429	0.5429
1928	1410.0	0.5714	0.5714
1949	1250.0	0.6000	0.6000
1956	1180.0	0.6286	0.6286
1941	1030.0	0.6571	0.6571
1946	964.0	0.6857	0.6857
1957	761.0	0.7143	0.7143
1958	755.0	0.7429	0.7429
1932	727.0	0.7714	0.7714
1959	724.0	0.8000	0.8000
1930	714.0	0.8286	0.8286
1933	643.0	0.8571	0.8571
1937	630.0	0.8857	0.8857
1931	616.0	0.9143	0.9143
1948	585.0	0.9429	0.9429
1934	565.0	0.9714	0.9714



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