

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

Station - 04075500 WOLF R ABOVE WEST BR WOLF R NR KESHENA, WI
2002 MAR 13 09:02:33

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

Number of peaks in record	=	35
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	35
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.235
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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	3167.9
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	980.9

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 2002 MAR 13 09:02:33

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.2462	0.0969	0.694
BULL.17B ESTIMATE	0.0	1.0000	3.2462	0.0969	0.319

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	1061.0	1146.0	1029.0	918.5	1175.0
0.9900	1106.0	1177.0	1079.0	966.3	1218.0
0.9500	1248.0	1283.0	1232.0	1118.0	1354.0
0.9000	1336.0	1354.0	1325.0	1213.0	1439.0
0.8000	1457.0	1456.0	1451.0	1342.0	1558.0
0.5000	1742.0	1718.0	1742.0	1634.0	1855.0
0.2000	2118.0	2103.0	2130.0	1982.0	2298.0
0.1000	2362.0	2373.0	2389.0	2190.0	2609.0
0.0400	2666.0	2733.0	2724.0	2438.0	3018.0
0.0200	2893.0	3014.0	2984.0	2617.0	3332.0
0.0100	3119.0	3306.0	3254.0	2792.0	3652.0
0.0050	3346.0	3613.0	3538.0	2965.0	3983.0
0.0020	3653.0	4044.0	3939.0	3195.0	4436.0
0.6667	1587.2	(1.50-year flood)			
0.4292	1811.6	(2.33-year flood)			

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 2002 MAR 13 09:02:33

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	1740.0		1946	2330.0	
1929	2640.0		1947	1540.0	
1930	1240.0		1948	1480.0	
1931	1350.0		1949	1480.0	
1932	1570.0		1950	1710.0	
1933	1290.0		1951	2440.0	
1934	1680.0		1952	1590.0	
1935	1960.0		1953	2540.0	
1936	1620.0		1954	1580.0	
1937	1960.0		1955	1450.0	
1938	2260.0		1956	1680.0	
1939	2140.0		1957	1520.0	
1940	1540.0		1958	1300.0	
1941	2390.0		1959	1760.0	
1942	1660.0		1960	3120.0	
1943	1830.0		1961	1400.0	
1944	1660.0		1962	2000.0	
1945	1830.0				

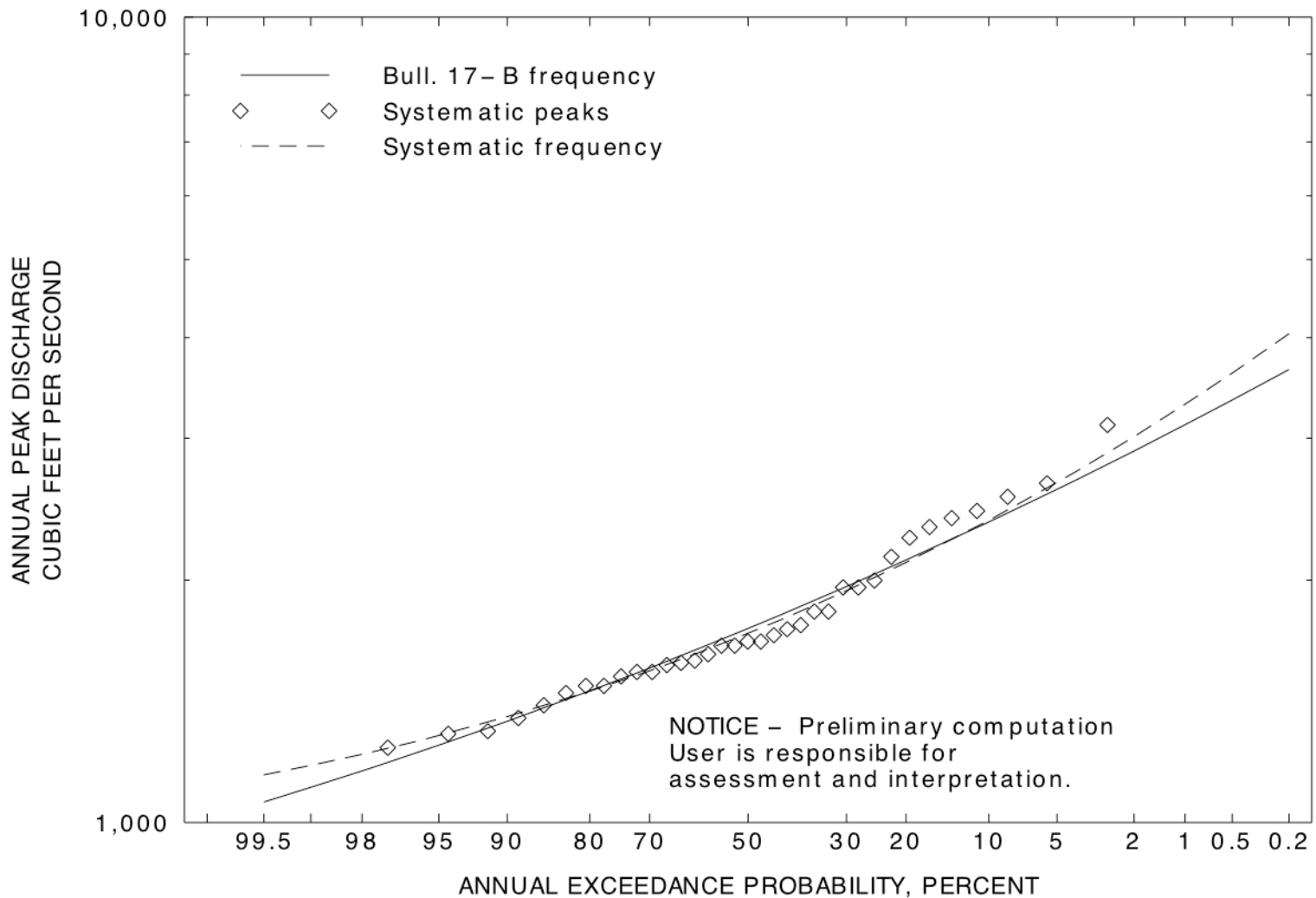
Explanation of peak discharge qualification codes

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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2002 MAR 13 09:02:33

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1960	3120.0	0.0278	0.0278
1929	2640.0	0.0556	0.0556
1953	2540.0	0.0833	0.0833
1951	2440.0	0.1111	0.1111
1941	2390.0	0.1389	0.1389
1946	2330.0	0.1667	0.1667
1938	2260.0	0.1944	0.1944
1939	2140.0	0.2222	0.2222
1962	2000.0	0.2500	0.2500
1935	1960.0	0.2778	0.2778
1937	1960.0	0.3056	0.3056
1943	1830.0	0.3333	0.3333
1945	1830.0	0.3611	0.3611
1959	1760.0	0.3889	0.3889
1928	1740.0	0.4167	0.4167
1950	1710.0	0.4444	0.4444
1934	1680.0	0.4722	0.4722
1956	1680.0	0.5000	0.5000
1942	1660.0	0.5278	0.5278
1944	1660.0	0.5556	0.5556
1936	1620.0	0.5833	0.5833
1952	1590.0	0.6111	0.6111
1954	1580.0	0.6389	0.6389
1932	1570.0	0.6667	0.6667
1940	1540.0	0.6944	0.6944
1947	1540.0	0.7222	0.7222
1957	1520.0	0.7500	0.7500
1948	1480.0	0.7778	0.7778
1949	1480.0	0.8056	0.8056
1955	1450.0	0.8333	0.8333
1961	1400.0	0.8611	0.8611
1931	1350.0	0.8889	0.8889
1958	1300.0	0.9167	0.9167
1933	1290.0	0.9444	0.9444
1930	1240.0	0.9722	0.9722



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