

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

Station - 04068000 PESHTIGO RIVER AT HIGH FALLS NEAR CRIVITZ, WI
 2002 MAR 13 09:02:31

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

Number of peaks in record	=	44
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	44
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.188
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.	841.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	4715.7

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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	3.2992	0.1377	-0.042
BULL.17B ESTIMATE	0.0	1.0000	3.2992	0.1377	-0.083

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	858.9	869.5	815.9	702.6	994.1
0.9900	934.6	943.6	897.9	777.1	1070.0
0.9500	1174.0	1178.0	1152.0	1018.0	1308.0
0.9000	1323.0	1325.0	1308.0	1170.0	1457.0
0.8000	1528.0	1526.0	1519.0	1379.0	1663.0
0.5000	2001.0	1996.0	2001.0	1847.0	2167.0
0.2000	2604.0	2602.0	2618.0	2392.0	2885.0
0.1000	2981.0	2986.0	3013.0	2709.0	3368.0
0.0400	3438.0	3454.0	3504.0	3079.0	3977.0
0.0200	3765.0	3792.0	3867.0	3337.0	4428.0
0.0100	4084.0	4124.0	4229.0	3584.0	4876.0
0.0050	4397.0	4451.0	4595.0	3823.0	5323.0
0.0020	4804.0	4881.0	5090.0	4129.0	5918.0
0.6667	1744.0	(1.50-year flood)			
0.4292	2116.9	(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
1913	2480.0		1935	1410.0	
1914	2070.0		1936	1550.0	
1915	1310.0		1937	2500.0	
1916	2850.0		1938	3430.0	
1917	2590.0		1939	2520.0	
1918	2140.0		1940	1760.0	
1919	2290.0		1941	2030.0	
1920	1830.0		1942	2060.0	
1921	3430.0		1943	2160.0	
1922	3670.0		1944	1720.0	
1923	2330.0		1945	2190.0	
1924	2430.0		1946	2280.0	
1925	1200.0		1947	1690.0	
1926	1980.0		1948	1550.0	
1927	1790.0		1949	1820.0	
1928	2510.0		1950	2850.0	
1929	3380.0		1951	3280.0	
1930	1440.0		1952	2120.0	
1931	905.0		1953	1610.0	
1932	1270.0		1954	1610.0	
1933	1470.0		1955	1720.0	
1934	1320.0		1956	1470.0	

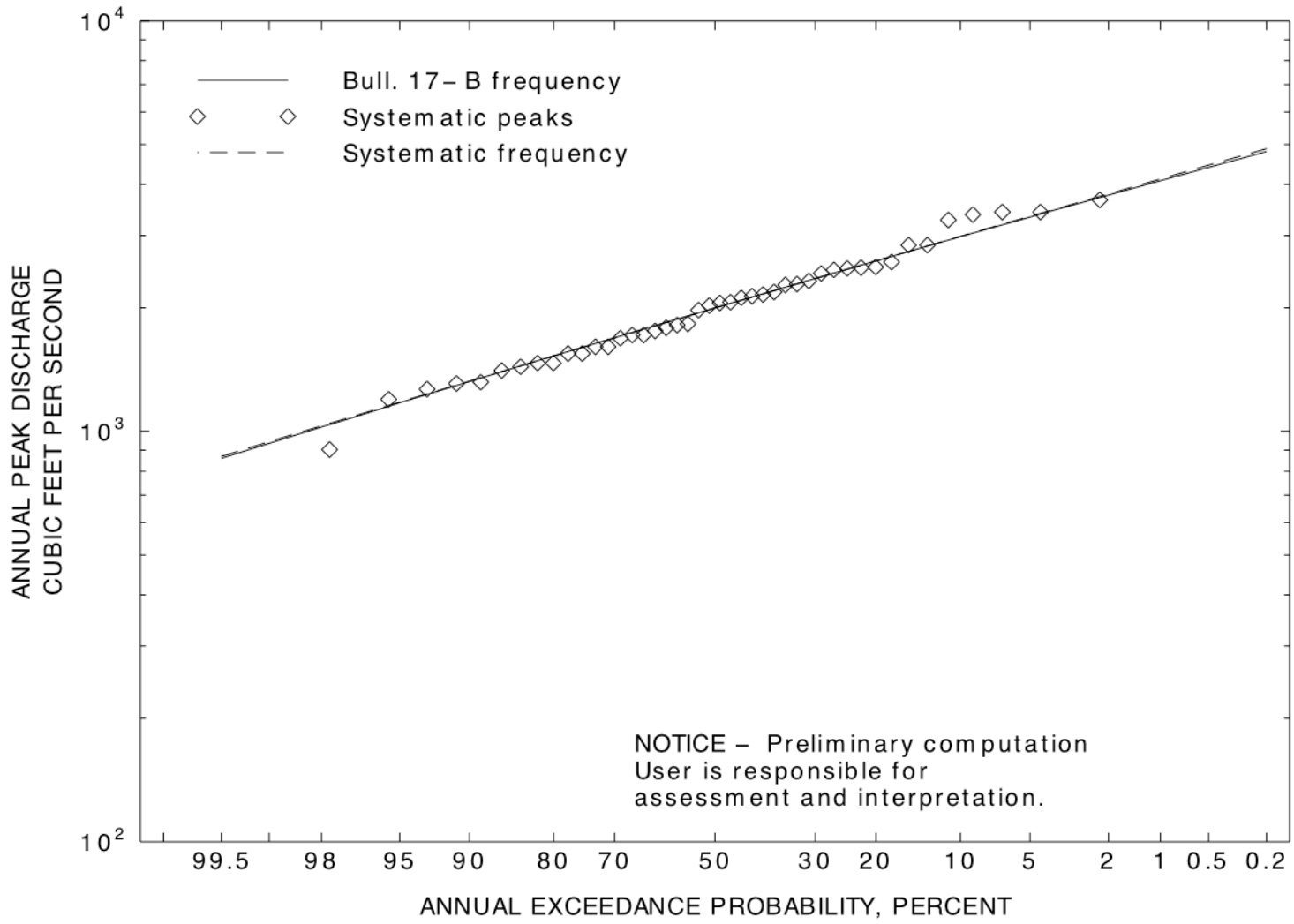
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
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
1922	3670.0	0.0222	0.0222
1921	3430.0	0.0444	0.0444
1938	3430.0	0.0667	0.0667
1929	3380.0	0.0889	0.0889
1951	3280.0	0.1111	0.1111
1916	2850.0	0.1333	0.1333
1950	2850.0	0.1556	0.1556
1917	2590.0	0.1778	0.1778
1939	2520.0	0.2000	0.2000
1928	2510.0	0.2222	0.2222
1937	2500.0	0.2444	0.2444
1913	2480.0	0.2667	0.2667
1924	2430.0	0.2889	0.2889
1923	2330.0	0.3111	0.3111
1919	2290.0	0.3333	0.3333
1946	2280.0	0.3556	0.3556
1945	2190.0	0.3778	0.3778
1943	2160.0	0.4000	0.4000
1918	2140.0	0.4222	0.4222
1952	2120.0	0.4444	0.4444
1914	2070.0	0.4667	0.4667
1942	2060.0	0.4889	0.4889
1941	2030.0	0.5111	0.5111
1926	1980.0	0.5333	0.5333
1920	1830.0	0.5556	0.5556
1949	1820.0	0.5778	0.5778
1927	1790.0	0.6000	0.6000
1940	1760.0	0.6222	0.6222
1944	1720.0	0.6444	0.6444
1955	1720.0	0.6667	0.6667
1947	1690.0	0.6889	0.6889
1953	1610.0	0.7111	0.7111
1954	1610.0	0.7333	0.7333
1936	1550.0	0.7556	0.7556
1948	1550.0	0.7778	0.7778
1933	1470.0	0.8000	0.8000
1956	1470.0	0.8222	0.8222
1930	1440.0	0.8444	0.8444
1935	1410.0	0.8667	0.8667
1934	1320.0	0.8889	0.8889
1915	1310.0	0.9111	0.9111
1932	1270.0	0.9333	0.9333
1925	1200.0	0.9556	0.9556
1931	905.0	0.9778	0.9778



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