

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

Station - 04025200 PEARSON CREEK NEAR MAPLE, 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	=	44
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	44
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.164
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	90.0
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.	1	90.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1989.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		69.7

Station - 04025200 PEARSON CREEK NEAR MAPLE, WI
 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	90.0	0.9773	2.5630	0.2716	0.758
BULL.17B ESTIMATE	90.0	0.9773	2.5630	0.2716	0.415

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
0.9500	141.4	152.0	137.7	108.4	173.4
0.9000	169.5	175.5	166.6	133.8	204.2
0.8000	214.1	214.0	212.1	174.8	253.4
0.5000	350.2	338.1	350.2	298.6	409.5
0.2000	608.8	597.1	616.6	515.3	743.4
0.1000	833.7	842.7	855.9	688.4	1065.0
0.0400	1189.0	1263.0	1250.0	945.4	1614.0
0.0200	1512.0	1676.0	1626.0	1168.0	2145.0
0.0100	1890.0	2192.0	2088.0	1419.0	2800.0
0.0050	2333.0	2836.0	2661.0	1704.0	3603.0
0.0020	3037.0	3937.0	3628.0	2140.0	4944.0
0.6667	270.5	(1.50-year flood)			
0.4292	390.5	(2.33-year flood)			

Station - 04025200 PEARSON CREEK NEAR MAPLE, WI
 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
1957	1030.0		1979	930.0	
1958	1190.0		1980	670.0	
1959	230.0		1981	90.0	L
1960	400.0		1982	320.0	
1961	415.0		1983	205.0	
1962	1360.0		1984	300.0	
1963	150.0		1985	1440.0	
1964	1060.0		1986	230.0	
1965	380.0		1987	240.0	
1966	210.0		1988	265.0	
1967	340.0		1989	325.0	
1968	260.0		1990	495.0	
1969	280.0		1991	795.0	
1970	310.0		1992	380.0	
1971	420.0		1993	352.0	
1972	850.0		1994	277.0	
1973	230.0		1995	181.0	
1974	220.0		1996	375.0	
1975	185.0		1997	366.0	
1976	255.0		1998	170.0	
1977	215.0		1999	878.0	
1978	375.0		2000	186.0	

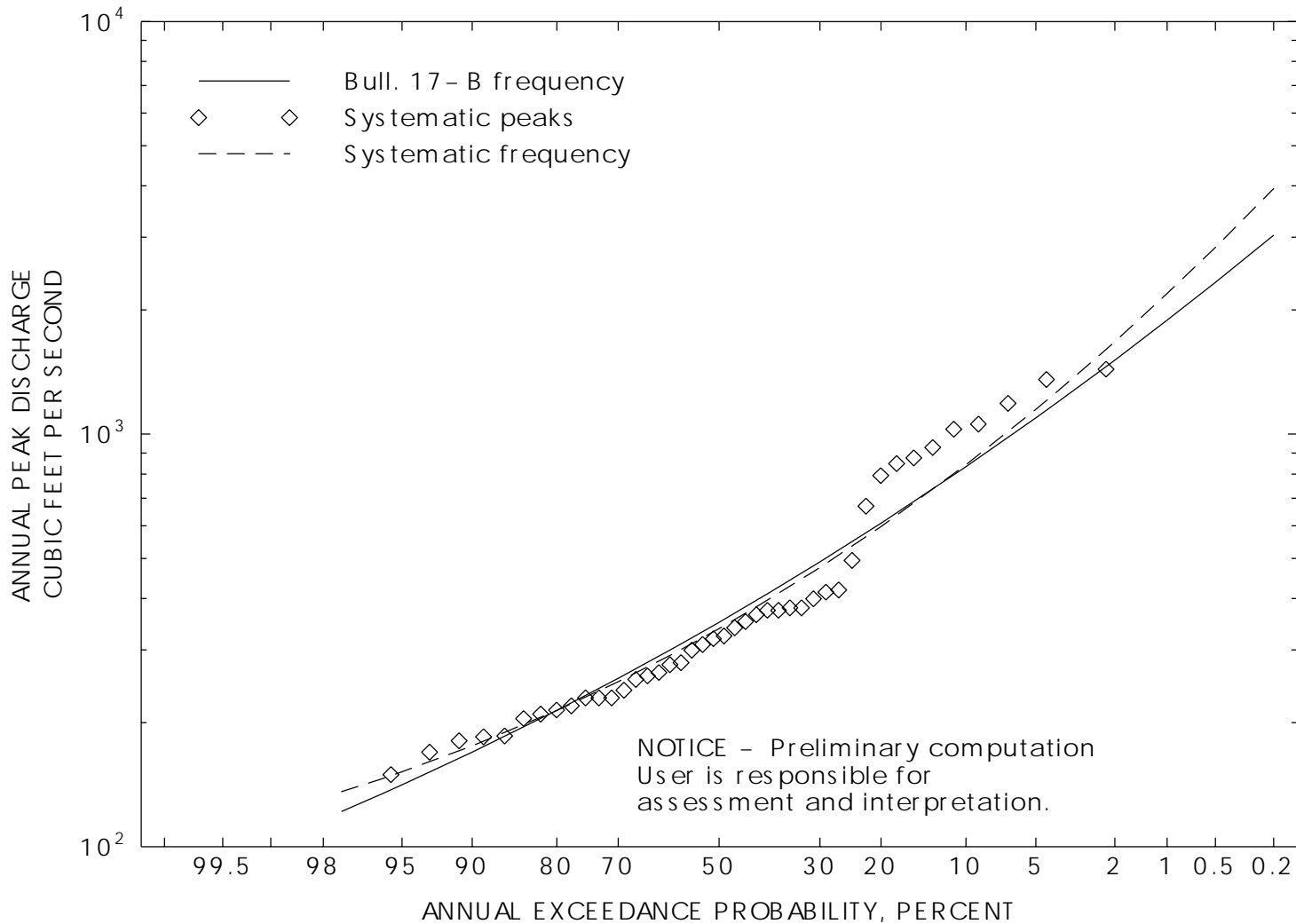
Explanation of peak discharge qualification codes

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 09:01:59

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1985	1440.0	0.0222	0.0222
1962	1360.0	0.0444	0.0444
1958	1190.0	0.0667	0.0667
1964	1060.0	0.0889	0.0889
1957	1030.0	0.1111	0.1111
1979	930.0	0.1333	0.1333
1999	878.0	0.1556	0.1556
1972	850.0	0.1778	0.1778
1991	795.0	0.2000	0.2000
1980	670.0	0.2222	0.2222
1990	495.0	0.2444	0.2444
1971	420.0	0.2667	0.2667
1961	415.0	0.2889	0.2889
1960	400.0	0.3111	0.3111
1965	380.0	0.3333	0.3333
1992	380.0	0.3556	0.3556
1978	375.0	0.3778	0.3778
1996	375.0	0.4000	0.4000
1997	366.0	0.4222	0.4222
1993	352.0	0.4444	0.4444
1967	340.0	0.4667	0.4667
1989	325.0	0.4889	0.4889
1982	320.0	0.5111	0.5111
1970	310.0	0.5333	0.5333
1984	300.0	0.5556	0.5556
1969	280.0	0.5778	0.5778
1994	277.0	0.6000	0.6000
1988	265.0	0.6222	0.6222
1968	260.0	0.6444	0.6444
1976	255.0	0.6667	0.6667
1987	240.0	0.6889	0.6889
1959	230.0	0.7111	0.7111
1973	230.0	0.7333	0.7333
1986	230.0	0.7556	0.7556
1974	220.0	0.7778	0.7778
1977	215.0	0.8000	0.8000
1966	210.0	0.8222	0.8222
1983	205.0	0.8444	0.8444
2000	186.0	0.8667	0.8667
1975	185.0	0.8889	0.8889
1995	181.0	0.9111	0.9111
1998	170.0	0.9333	0.9333
1963	150.0	0.9556	0.9556
1981	90.0	--	--



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 2002 MAR 13 09:01:59