

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

Station - 04071700 NORTH BRANCH LITTLE RIVER NEAR COLEMAN, 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	=	43
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	43
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.219
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	37.3
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1062.5

Station - 04071700 NORTH BRANCH LITTLE RIVER NEAR COLEMAN, WI
 2002 MAR 13 09:02:31

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.3430	0.2846	-1.225
BULL.17B ESTIMATE	37.3	0.9767	2.3575	0.2499	-0.538

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	--	19.7	--	--	--
0.9900	--	27.7	--	--	--
0.9500	81.6	62.9	78.2	62.0	100.3
0.9000	106.2	91.5	103.5	84.5	127.0
0.8000	143.3	136.6	141.6	119.1	167.3
0.5000	239.8	251.0	239.8	207.3	278.3
0.2000	372.9	382.6	376.1	318.9	450.7
0.1000	457.0	447.3	464.0	384.7	568.7
0.0400	556.5	506.9	570.8	459.5	715.3
0.0200	625.4	539.0	646.3	509.8	820.6
0.0100	690.0	563.3	718.8	556.1	921.6
0.0050	750.8	581.7	788.3	599.1	1019.0
0.0020	826.1	599.5	877.3	651.4	1141.0
0.6667	185.9	(1.50-year flood)			
0.4292	265.7	(2.33-year flood)			

Station - 04071700 NORTH BRANCH LITTLE RIVER NEAR COLEMAN, WI
 2002 MAR 13 09:02:31

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1958	195.0		1980	410.0	
1959	250.0		1981	260.0	
1960	405.0		1982	250.0	
1961	230.0		1983	190.0	
1962	160.0		1984	189.0	
1963	229.0		1985	325.0	
1964	120.0		1986	390.0	
1965	225.0		1987	100.0	
1966	75.0		1988	130.0	
1967	640.0		1989	345.0	
1968	180.0		1990	380.0	
1969	310.0		1991	200.0	
1970	300.0		1992	220.0	
1971	500.0		1993	300.0	
1972	390.0		1994	186.0	
1973	510.0		1995	77.0	
1974	170.0		1996	250.0	
1975	330.0		1997	217.0	
1976	520.0		1998	279.0	
1977	94.0		1999	24.0	
1978	210.0		2000	48.5	
1979	395.0				

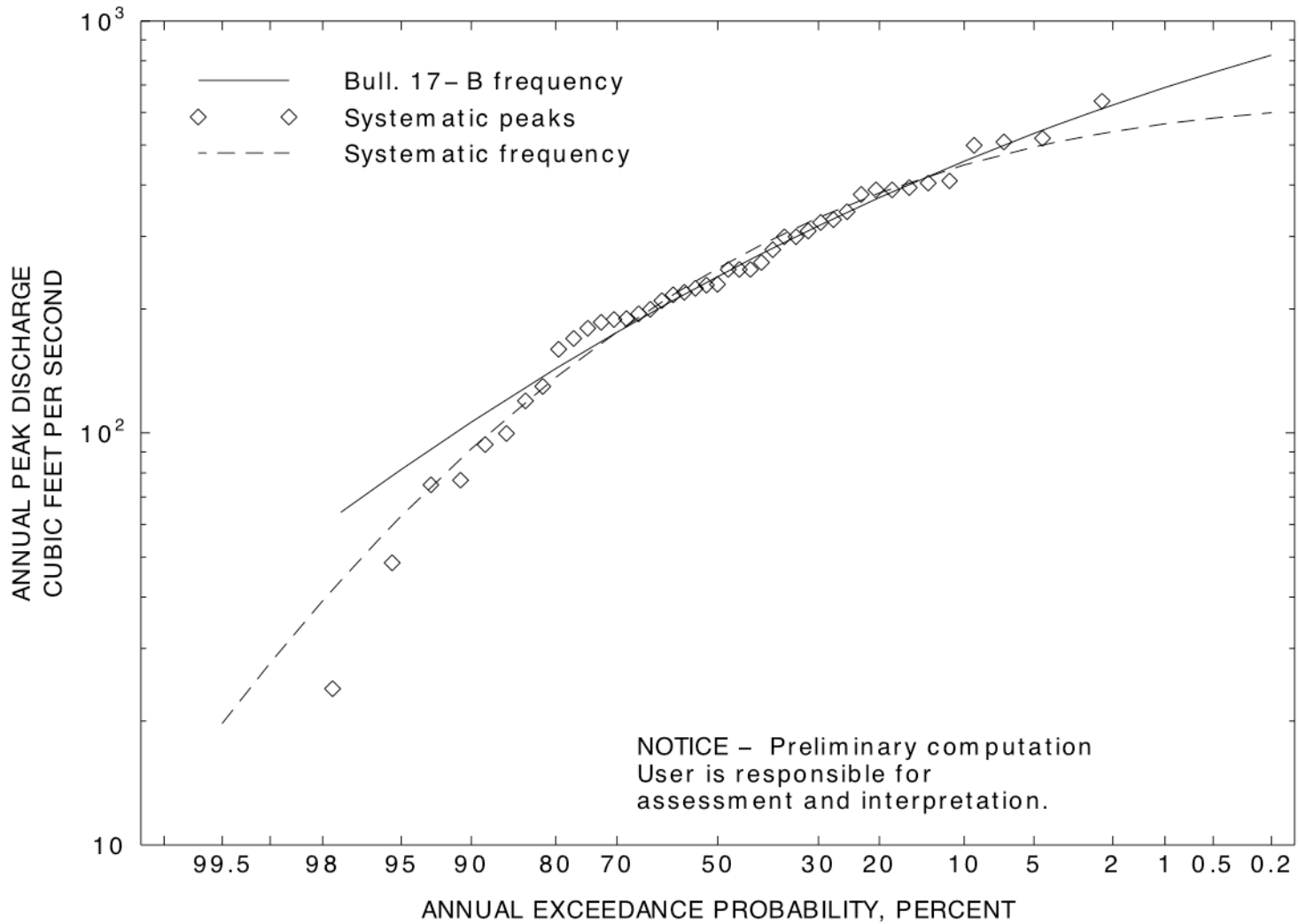
Explanation of peak discharge qualification codes

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

Station - 04071700 NORTH BRANCH LITTLE RIVER NEAR COLEMAN, WI
2002 MAR 13 09:02:31

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1967	640.0	0.0227	0.0227
1976	520.0	0.0455	0.0455
1973	510.0	0.0682	0.0682
1971	500.0	0.0909	0.0909
1980	410.0	0.1136	0.1136
1960	405.0	0.1364	0.1364
1979	395.0	0.1591	0.1591
1972	390.0	0.1818	0.1818
1986	390.0	0.2045	0.2045
1990	380.0	0.2273	0.2273
1989	345.0	0.2500	0.2500
1975	330.0	0.2727	0.2727
1985	325.0	0.2955	0.2955
1969	310.0	0.3182	0.3182
1970	300.0	0.3409	0.3409
1993	300.0	0.3636	0.3636
1998	279.0	0.3864	0.3864
1981	260.0	0.4091	0.4091
1959	250.0	0.4318	0.4318
1982	250.0	0.4545	0.4545
1996	250.0	0.4773	0.4773
1961	230.0	0.5000	0.5000
1963	229.0	0.5227	0.5227
1965	225.0	0.5455	0.5455
1992	220.0	0.5682	0.5682
1997	217.0	0.5909	0.5909
1978	210.0	0.6136	0.6136
1991	200.0	0.6364	0.6364
1958	195.0	0.6591	0.6591
1983	190.0	0.6818	0.6818
1984	189.0	0.7045	0.7045
1994	186.0	0.7273	0.7273
1968	180.0	0.7500	0.7500
1974	170.0	0.7727	0.7727
1962	160.0	0.7955	0.7955
1988	130.0	0.8182	0.8182
1964	120.0	0.8409	0.8409
1987	100.0	0.8636	0.8636
1977	94.0	0.8864	0.8864
1995	77.0	0.9091	0.9091
1966	75.0	0.9318	0.9318
2000	48.5	0.9545	0.9545
1999	24.0	0.9773	0.9773



Station - 04071700 NORTH BRANCH LITTLE RIVER NEAR COLEMAN, WI
 2002 MAR 13 09:02:31