

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

Station - 05548150 NORTH BR NIPPERSINK CRK NR GENOA CITY, WI
 2002 MAR 13 09:03:28

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

Number of peaks in record	=	39
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	39
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.400
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	60.0
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.	4	60.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		56.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		701.5

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	60.0	0.8974	2.2643	0.2246	0.100
BULL.17B ESTIMATE	60.0	0.8974	2.2643	0.2246	-0.056

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
0.8000	119.1	118.7	117.9	99.6	137.9
0.5000	184.7	182.2	184.7	160.8	212.2
0.2000	284.4	283.3	287.3	245.6	340.2
0.1000	355.5	358.5	362.6	301.3	440.2
0.0400	449.9	462.6	466.4	371.9	581.5
0.0200	523.4	546.5	550.3	424.8	696.7
0.0100	599.2	635.8	640.2	478.0	819.6
0.0050	677.7	731.1	737.1	531.8	951.0
0.0020	786.1	867.2	877.8	604.5	1138.0
0.6667	147.7	(1.50-year flood)			
0.4292	202.5	(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
1962	112.0		1982	260.0	
1963	60.0	L	1983	328.0	
1964	60.0	L	1984	220.0	
1965	120.0		1985	105.0	
1966	175.0		1986	375.0	
1967	255.0		1987	110.0	
1968	60.0	L	1988	130.0	
1969	187.0		1989	136.0	
1970	182.0		1990	160.0	
1971	315.0		1991	180.0	
1972	196.0		1992	85.0	
1973	240.0		1993	350.0	
1974	222.0		1994	350.0	
1975	180.0		1995	85.0	
1976	202.0		1996	204.0	
1977	60.0	L	1997	295.0	
1978	164.0		1998	333.0	
1979	200.0		1999	517.0	
1980	135.0		2000	563.0	
1981	110.0				

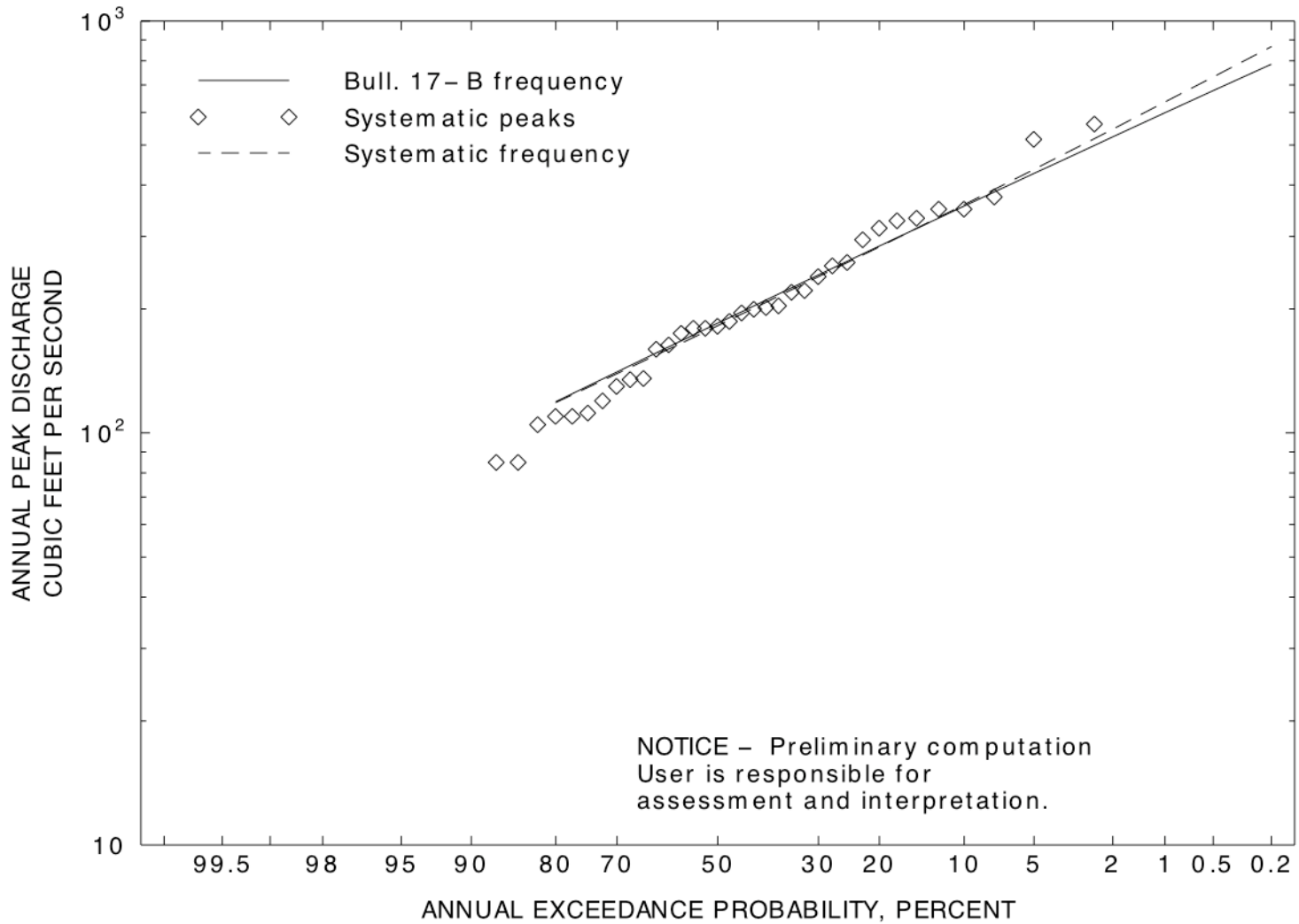
Explanation of peak discharge qualification codes

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
2000	563.0	0.0250	0.0250
1999	517.0	0.0500	0.0500
1986	375.0	0.0750	0.0750
1993	350.0	0.1000	0.1000
1994	350.0	0.1250	0.1250
1998	333.0	0.1500	0.1500
1983	328.0	0.1750	0.1750
1971	315.0	0.2000	0.2000
1997	295.0	0.2250	0.2250
1982	260.0	0.2500	0.2500
1967	255.0	0.2750	0.2750
1973	240.0	0.3000	0.3000
1974	222.0	0.3250	0.3250
1984	220.0	0.3500	0.3500
1996	204.0	0.3750	0.3750
1976	202.0	0.4000	0.4000
1979	200.0	0.4250	0.4250
1972	196.0	0.4500	0.4500
1969	187.0	0.4750	0.4750
1970	182.0	0.5000	0.5000
1975	180.0	0.5250	0.5250
1991	180.0	0.5500	0.5500
1966	175.0	0.5750	0.5750
1978	164.0	0.6000	0.6000
1990	160.0	0.6250	0.6250
1989	136.0	0.6500	0.6500
1980	135.0	0.6750	0.6750
1988	130.0	0.7000	0.7000
1965	120.0	0.7250	0.7250
1962	112.0	0.7500	0.7500
1981	110.0	0.7750	0.7750
1987	110.0	0.8000	0.8000
1985	105.0	0.8250	0.8250
1992	85.0	0.8500	0.8500
1995	85.0	0.8750	0.8750
1963	60.0	--	--
1964	60.0	--	--
1968	60.0	--	--
1977	60.0	--	--



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