

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

Station - 05356200 KENYON CREEK NEAR RADISSON, WI
 2002 MAR 13 09:02:47

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

Number of peaks in record	=	21
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	21
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.230
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	50.0
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	50.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		50.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		563.6

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	50.0	0.9524	2.2093	0.2293	-0.440
BULL.17B ESTIMATE	50.0	0.9524	2.2093	0.2293	-0.340

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	64.7	63.9	60.0	43.9	83.6
0.9000	81.0	80.7	77.3	58.4	101.4
0.8000	105.0	105.4	102.6	80.8	128.1
0.5000	166.8	168.3	166.8	137.4	203.5
0.2000	254.2	254.4	258.7	208.0	331.6
0.1000	311.6	309.2	322.1	249.9	427.3
0.0400	382.6	375.0	405.4	298.7	555.3
0.0200	434.0	421.4	469.4	332.5	653.8
0.0100	484.2	465.5	535.7	364.5	753.8
0.0050	533.2	507.7	604.3	395.1	855.4
0.0020	596.8	560.9	699.3	433.8	992.0
0.6667	132.3	(1.50-year flood)			
0.4292	183.4	(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
1960	105.0		1971	242.0	
1961	130.0		1972	192.0	
1962	95.0		1973	276.0	
1963	50.0	L	1974	222.0	
1964	60.0		1975	246.0	
1965	280.0		1976	182.0	
1966	100.0		1977	75.0	
1967	330.0		1978	360.0	
1968	235.0		1979	120.0	
1969	130.0		1980	155.0	
1970	225.0				

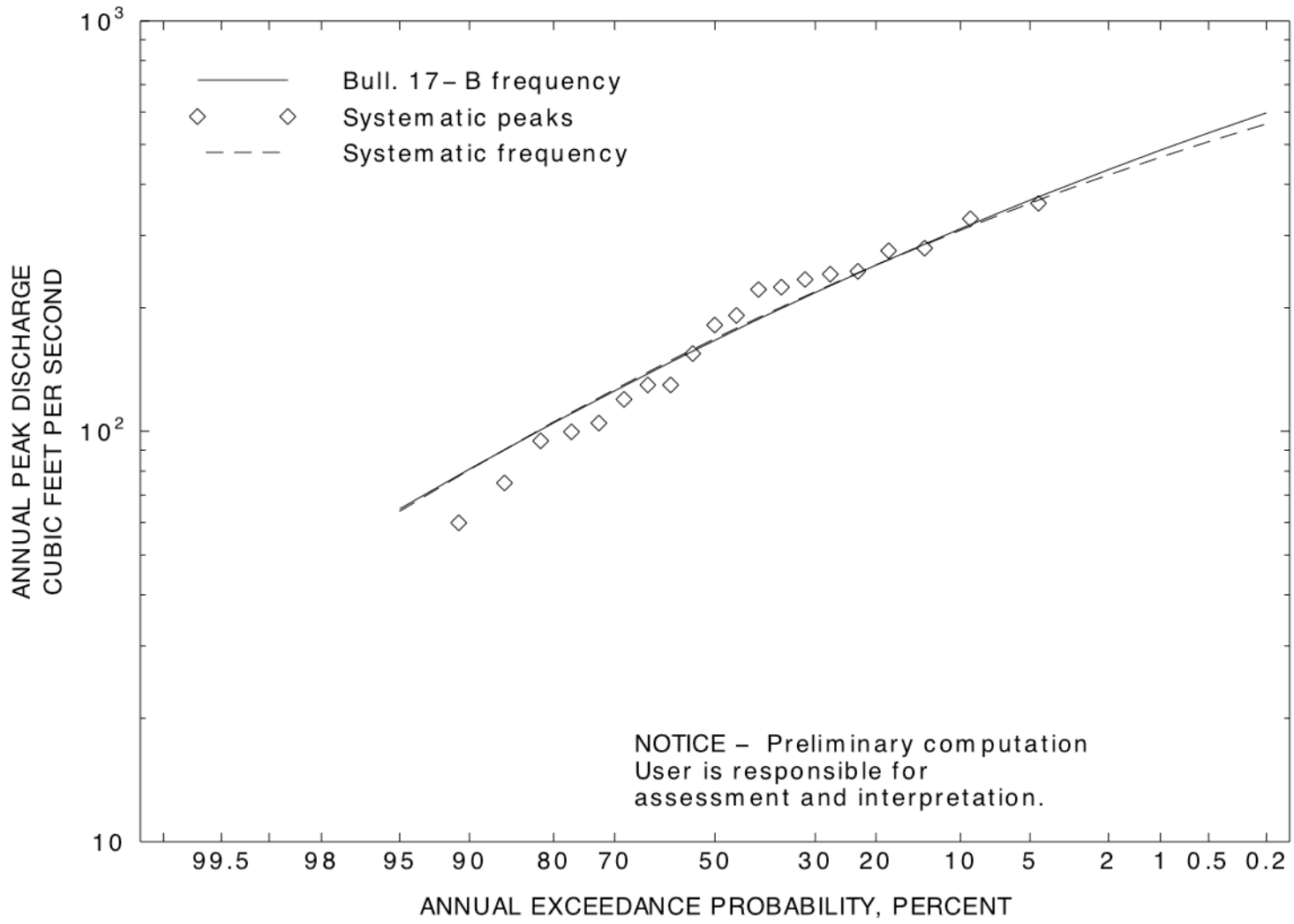
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	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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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1978	360.0	0.0455	0.0455
1967	330.0	0.0909	0.0909
1965	280.0	0.1364	0.1364
1973	276.0	0.1818	0.1818
1975	246.0	0.2273	0.2273
1971	242.0	0.2727	0.2727
1968	235.0	0.3182	0.3182
1970	225.0	0.3636	0.3636
1974	222.0	0.4091	0.4091
1972	192.0	0.4545	0.4545
1976	182.0	0.5000	0.5000
1980	155.0	0.5455	0.5455
1961	130.0	0.5909	0.5909
1969	130.0	0.6364	0.6364
1979	120.0	0.6818	0.6818
1960	105.0	0.7273	0.7273
1966	100.0	0.7727	0.7727
1962	95.0	0.8182	0.8182
1977	75.0	0.8636	0.8636
1964	60.0	0.9091	0.9091
1963	50.0	--	--



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