

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

Station - 05427000 WHITEWATER CR AT WILLIS RAY RD NR WHITEWATER WI
 2002 MAR 13 09:03:20

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

Number of peaks in record	=	13
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	13
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	=	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.	49.1
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	686.9

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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	2.2639	0.2635	0.388
BULL.17B ESTIMATE	0.0	1.0000	2.2639	0.2635	-0.062

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	37.1	48.0	25.3	15.5	59.4
0.9900	43.5	53.3	32.5	19.5	67.3
0.9500	67.0	72.7	58.9	36.4	95.4
0.9000	84.0	86.9	77.7	50.2	115.5
0.8000	110.4	109.3	106.1	72.8	147.0
0.5000	184.7	176.5	184.7	137.8	248.1
0.2000	306.4	301.4	318.2	230.0	465.1
0.1000	397.8	407.9	428.5	289.9	664.5
0.0400	524.1	573.2	601.0	365.4	981.4
0.0200	625.3	721.2	760.0	422.0	1266.0
0.0100	732.3	892.7	952.1	478.9	1592.0
0.0050	845.5	1091.0	1187.0	536.8	1964.0
0.0020	1005.0	1402.0	1586.0	615.0	2532.0
0.6667	142.1	(1.50-year flood)			
0.4292	205.9	(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
1927	445.0		1952	347.0	
1928	176.0		1953	157.0	
1947	113.0		1954	127.0	
1948	330.0		1979	288.0	
1949	89.0		1980	105.0	
1950	451.0		1981	112.0	
1951	98.0				

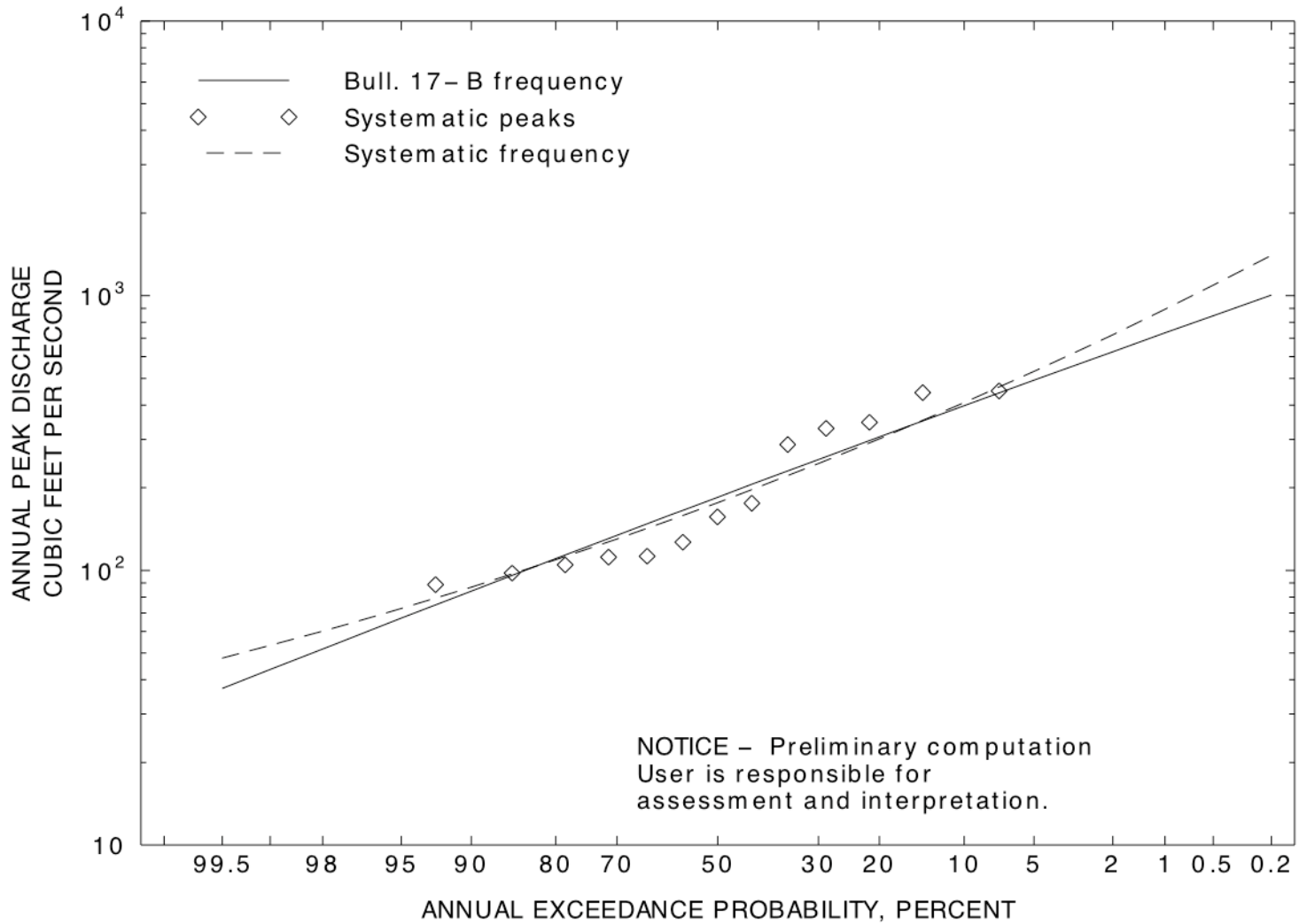
Explanation of peak discharge qualification codes

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
1950	451.0	0.0714	0.0714
1927	445.0	0.1429	0.1429
1952	347.0	0.2143	0.2143
1948	330.0	0.2857	0.2857
1979	288.0	0.3571	0.3571
1928	176.0	0.4286	0.4286
1953	157.0	0.5000	0.5000
1954	127.0	0.5714	0.5714
1947	113.0	0.6429	0.6429
1981	112.0	0.7143	0.7143
1980	105.0	0.7857	0.7857
1951	98.0	0.8571	0.8571
1949	89.0	0.9286	0.9286



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