

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

Station - 04083400 EAST BRANCH FOND DU LAC R TRIB NR EDEN, WI
2002 MAR 13 09:02:38

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	=	-0.369
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	29.0
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.	5	29.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		22.6
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		217.4

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	29.0	0.7619	1.7444	0.2768	-0.413
BULL.17B ESTIMATE	29.0	0.7619	1.7444	0.2768	-0.392

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
0.5000	57.9	58.0	57.9	45.8	73.6
0.2000	95.7	95.8	97.8	75.2	132.0
0.1000	121.8	121.5	126.6	93.4	178.0
0.0400	154.8	154.0	165.5	115.0	241.8
0.0200	179.2	177.8	196.1	130.3	292.1
0.0100	203.2	201.2	228.1	144.8	344.1
0.0050	226.9	224.1	261.5	158.8	397.5
0.0020	257.8	253.8	308.0	176.6	470.2
0.6667	43.7	(1.50-year flood)			
0.4292	64.9	(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
1961	50.0		1972	85.0	
1962	30.0		1973	60.0	
1963	50.0		1974	80.0	
1964	20.0		1975	110.0	
1965	40.0		1976	29.0	L
1966	48.0		1977	29.0	L
1967	25.0		1978	135.0	
1968	85.0		1979	130.0	
1969	35.0		1980	135.0	
1970	18.0	L	1981	115.0	
1971	65.0				

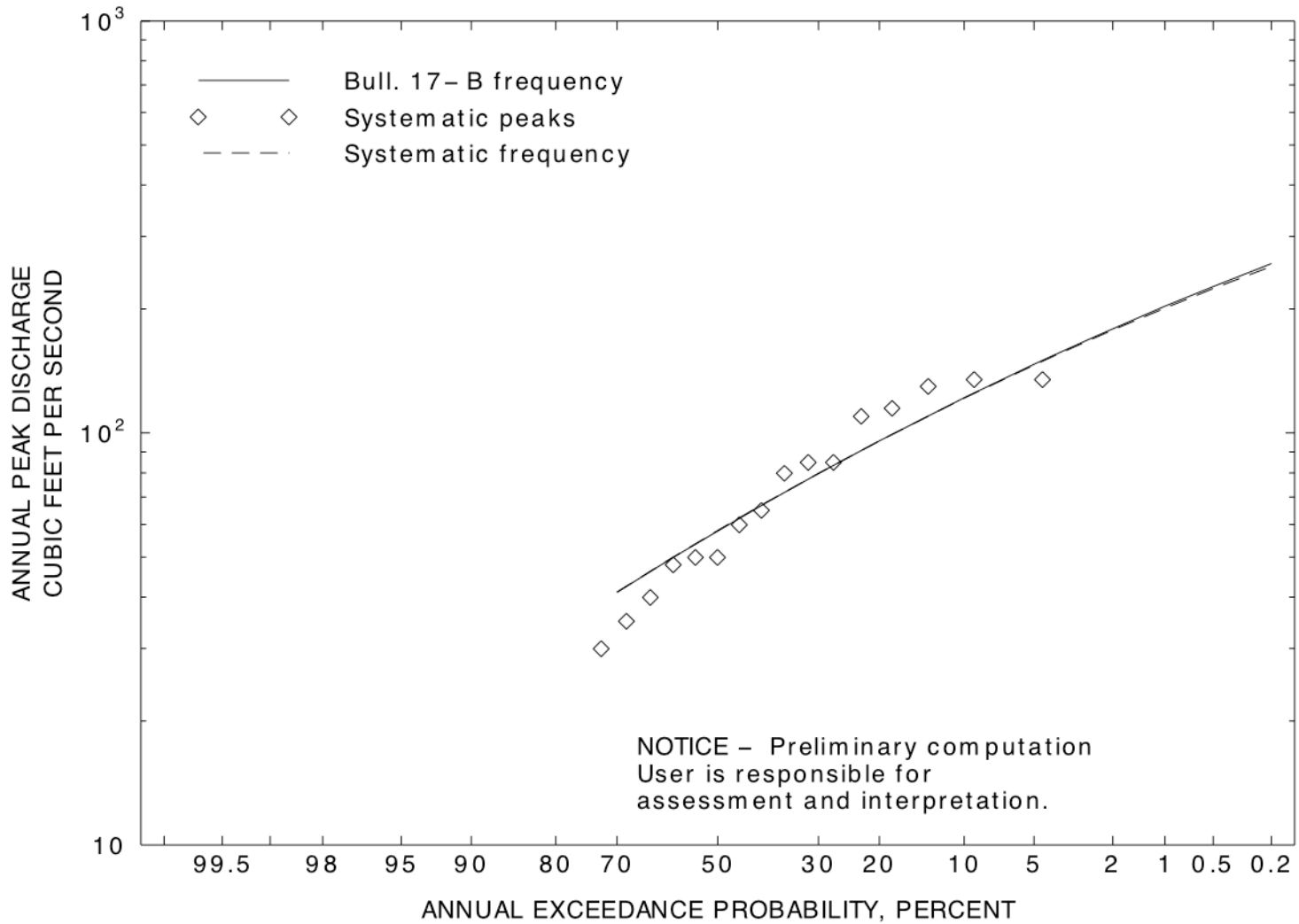
Explanation of peak discharge qualification codes

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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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1978	135.0	0.0455	0.0455
1980	135.0	0.0909	0.0909
1979	130.0	0.1364	0.1364
1981	115.0	0.1818	0.1818
1975	110.0	0.2273	0.2273
1968	85.0	0.2727	0.2727
1972	85.0	0.3182	0.3182
1974	80.0	0.3636	0.3636
1971	65.0	0.4091	0.4091
1973	60.0	0.4545	0.4545
1961	50.0	0.5000	0.5000
1963	50.0	0.5455	0.5455
1966	48.0	0.5909	0.5909
1965	40.0	0.6364	0.6364
1969	35.0	0.6818	0.6818
1962	30.0	0.7273	0.7273
1976	29.0	--	--
1977	29.0	--	--
1967	25.0	--	--
1964	20.0	--	--
1970	18.0	--	--



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