

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

Station - 05346600 LITTLE TRIMBELLE CREEK NEAR BAY CITY, 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	=	20
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	20
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.389
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	220.0
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	220.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		3968.5
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		168.7

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	220.0	0.8000	2.8146	0.3416	0.433
BULL.17B ESTIMATE	220.0	0.8000	2.8146	0.3416	0.034

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	--	332.9	--	--	--
0.5000	649.7	616.6	649.7	481.0	876.9
0.2000	1263.0	1238.0	1305.0	931.7	1896.0
0.1000	1793.0	1841.0	1911.0	1276.0	2943.0
0.0400	2610.0	2886.0	2933.0	1763.0	4780.0
0.0200	3329.0	3915.0	3932.0	2163.0	6580.0
0.0100	4148.0	5200.0	5188.0	2596.0	8800.0
0.0050	5074.0	6798.0	6777.0	3065.0	11510.0
0.0020	6484.0	9508.0	9559.0	3745.0	15970.0
0.6667	463.5	(1.50-year flood)			
0.4292	747.3	(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	470.0		1971	220.0	L
1962	810.0		1972	220.0	L
1963	470.0		1973	430.0	
1964	350.0		1974	530.0	
1965	1700.0		1975	220.0	L
1966	1780.0		1976	540.0	
1967	1550.0		1977	595.0	
1968	2300.0		1978	3100.0	
1969	425.0		1979	590.0	
1970	220.0	L	1980	1050.0	

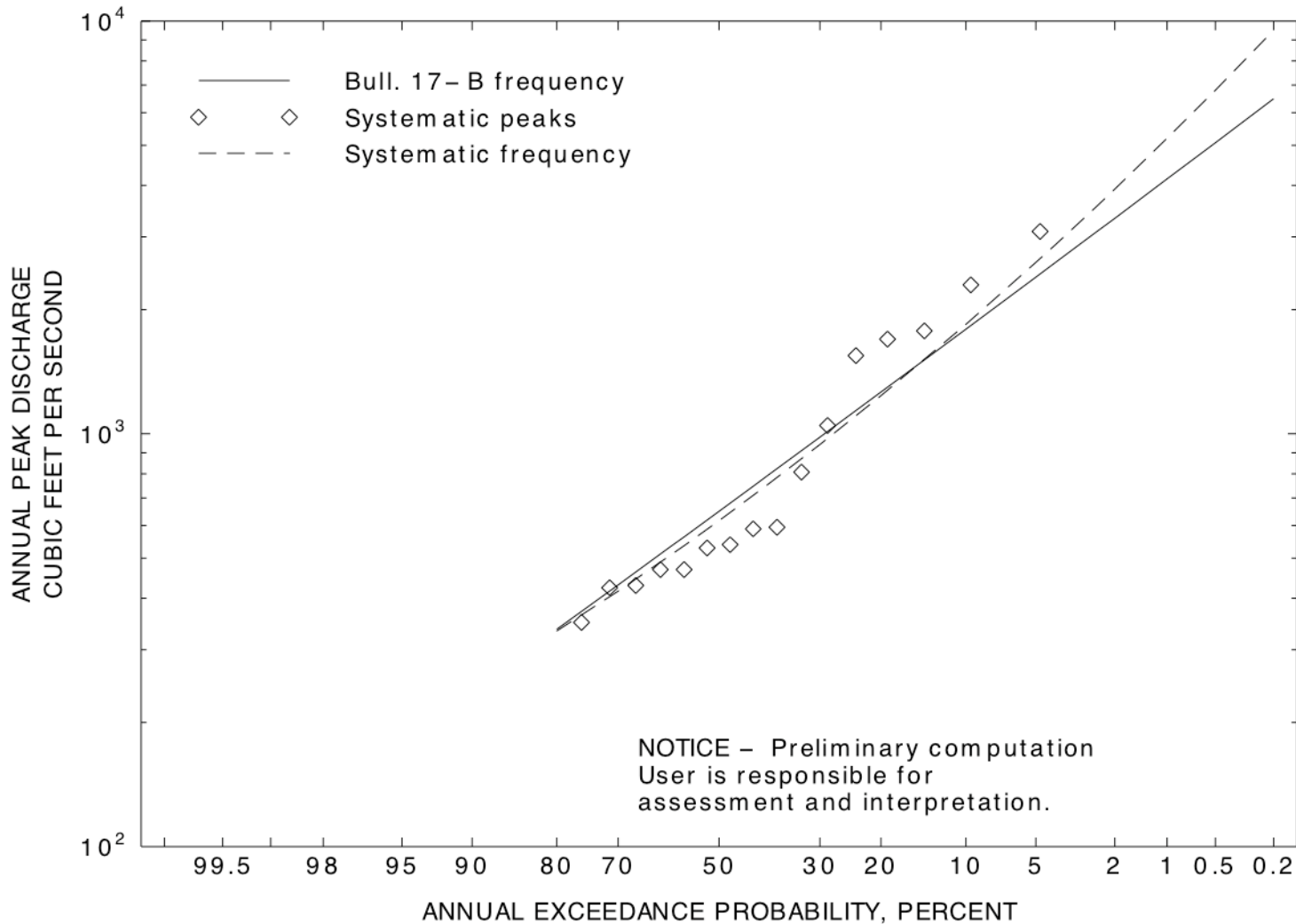
Explanation of peak discharge qualification codes

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	3100.0	0.0476	0.0476
1968	2300.0	0.0952	0.0952
1966	1780.0	0.1429	0.1429
1965	1700.0	0.1905	0.1905
1967	1550.0	0.2381	0.2381
1980	1050.0	0.2857	0.2857
1962	810.0	0.3333	0.3333
1977	595.0	0.3810	0.3810
1979	590.0	0.4286	0.4286
1976	540.0	0.4762	0.4762
1974	530.0	0.5238	0.5238
1961	470.0	0.5714	0.5714
1963	470.0	0.6190	0.6190
1973	430.0	0.6667	0.6667
1969	425.0	0.7143	0.7143
1964	350.0	0.7619	0.7619
1970	220.0	--	--
1971	220.0	--	--
1972	220.0	--	--
1975	220.0	--	--



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