

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

Station - 04066700 MCCALL CREEK AT WAUSAUKEE, WI  
 2002 MAR 13 09:02:28

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	22
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	22
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.177
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	1.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		104.9

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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	1.0725	0.4355	-0.939
BULL.17B ESTIMATE	1.0	0.9545	1.0975	0.3899	-0.466

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	--	0.4	--	--	--
0.9900	--	0.6	--	--	--
0.9500	2.6	1.8	2.2	1.3	3.9
0.9000	3.8	3.1	3.5	2.2	5.6
0.8000	6.0	5.5	5.8	3.9	8.4
0.5000	13.4	13.8	13.4	9.7	18.7
0.2000	27.0	27.8	27.7	19.3	41.9
0.1000	37.5	37.0	39.4	26.0	62.8
0.0400	51.7	47.7	56.3	34.5	94.5
0.0200	62.8	54.6	70.3	40.7	121.1
0.0100	74.1	60.7	85.5	46.8	149.8
0.0050	85.5	66.0	101.7	52.8	180.4
0.0020	100.7	72.0	124.8	60.5	223.4
0.6667	9.0	( 1.50-year flood )			
0.4292	15.8	( 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
1959	24.0		1970	6.0	
1960	32.0		1971	8.0	
1961	25.0		1972	16.0	
1962	6.0		1973	30.0	
1963	1.0		1974	13.0	
1964	28.0		1975	10.0	
1965	3.0		1976	33.0	
1966	4.0		1977	21.0	
1967	30.0		1978	2.0	
1968	10.0		1979	11.0	
1969	39.0		1980	19.0	

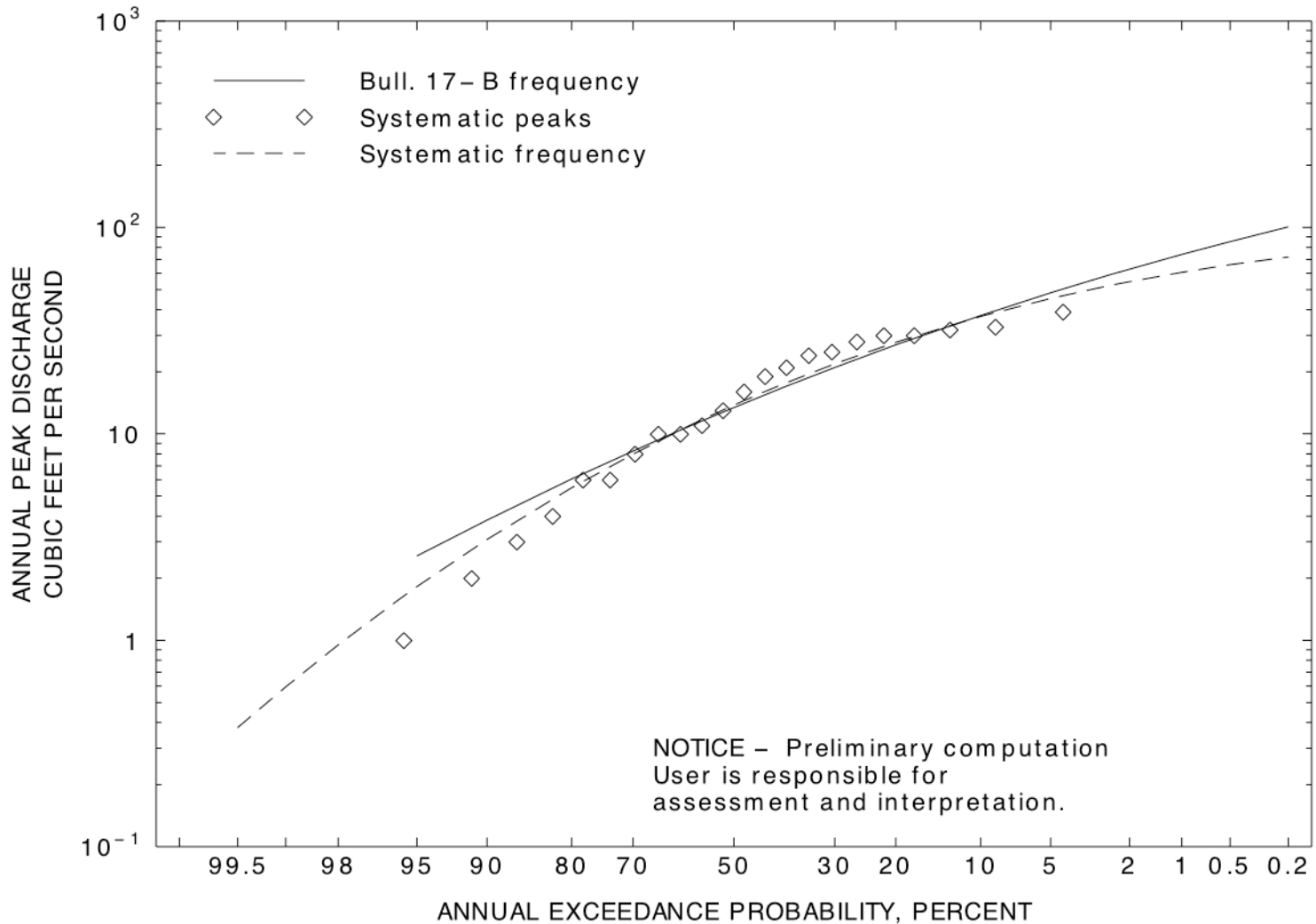
Explanation of peak discharge qualification codes

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
1969	39.0	0.0435	0.0435
1976	33.0	0.0870	0.0870
1960	32.0	0.1304	0.1304
1967	30.0	0.1739	0.1739
1973	30.0	0.2174	0.2174
1964	28.0	0.2609	0.2609
1961	25.0	0.3043	0.3043
1959	24.0	0.3478	0.3478
1977	21.0	0.3913	0.3913
1980	19.0	0.4348	0.4348
1972	16.0	0.4783	0.4783
1974	13.0	0.5217	0.5217
1979	11.0	0.5652	0.5652
1968	10.0	0.6087	0.6087
1975	10.0	0.6522	0.6522
1971	8.0	0.6957	0.6957
1962	6.0	0.7391	0.7391
1970	6.0	0.7826	0.7826
1966	4.0	0.8261	0.8261
1965	3.0	0.8696	0.8696
1978	2.0	0.9130	0.9130
1963	1.0	0.9565	0.9565



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