

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

Station - 05365000 DUNCAN CREEK AT CHIPPEWA FALLS, WI  
 2002 MAR 13 09:02:52

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	14
Peaks not used in analysis	=	1
Systematic peaks in analysis	=	13
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.328
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. \*\*\*\*\*

**WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.		1
**WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS =	=	13
WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.		0.0
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	522.2
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		4827.1
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

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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	3.2540	0.2465	-0.989
BULL.17B ESTIMATE	522.2	0.9231	3.2828	0.1883	-0.176

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	--	249.1	--	--	--
0.9900	--	324.1	--	--	--
0.9500	--	619.2	--	--	--
0.9000	1092.0	838.7	1029.0	753.5	1371.0
0.8000	1337.0	1167.0	1298.0	994.0	1641.0
0.5000	1942.0	1968.0	1942.0	1577.0	2400.0
0.2000	2771.0	2911.0	2844.0	2257.0	3736.0
0.1000	3313.0	3408.0	3484.0	2645.0	4770.0
0.0400	3988.0	3907.0	4367.0	3091.0	6198.0
0.0200	4483.0	4201.0	5091.0	3401.0	7331.0
0.0100	4970.0	4441.0	5884.0	3696.0	8514.0
0.0050	5454.0	4640.0	6765.0	3980.0	9749.0
0.0020	6092.0	4851.0	8094.0	4343.0	11460.0
0.6667	1607.9	( 1.50-year flood )			
0.4292	2098.5	( 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
1934	-99999.0		1949	1630.0	
1943	3310.0		1950	2420.0	
1944	1040.0		1951	1560.0	
1945	2810.0		1952	3640.0	
1946	1560.0		1953	1430.0	
1947	1350.0		1954	3220.0	
1948	2080.0		1955	459.0	

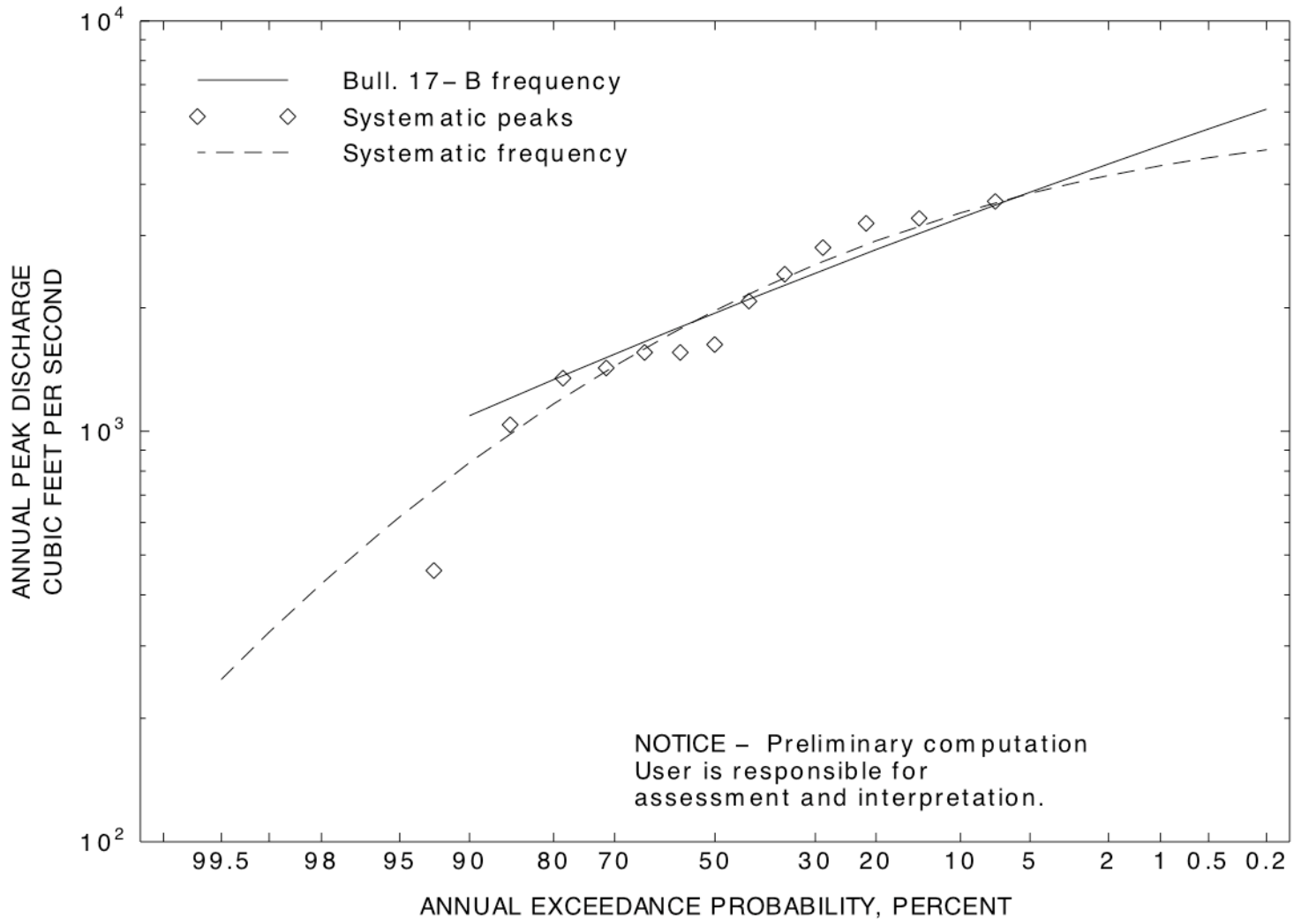
Explanation of peak discharge qualification codes

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
1952	3640.0	0.0714	0.0714
1943	3310.0	0.1429	0.1429
1954	3220.0	0.2143	0.2143
1945	2810.0	0.2857	0.2857
1950	2420.0	0.3571	0.3571
1948	2080.0	0.4286	0.4286
1949	1630.0	0.5000	0.5000
1946	1560.0	0.5714	0.5714
1951	1560.0	0.6429	0.6429
1953	1430.0	0.7143	0.7143
1947	1350.0	0.7857	0.7857
1944	1040.0	0.8571	0.8571
1955	459.0	0.9286	0.9286
1934	-99999.0	--	--



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