

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

Station - 05426500 WHITEWATER CREEK NEAR WHITEWATER, WI  
 2002 MAR 13 09:03:18

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	11
Peaks not used in analysis	=	8
Systematic peaks in analysis	=	3
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. \*\*\*\*\*

\*\*WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.           8  
 \*\*WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS =       3  
 \*\*WCF118W-SYSTEMATIC RECORD SHORTER THAN 17B SPEC.           3  
   WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.               0.0  
   WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.       26.5  
   WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.         7.1  
 \*\*WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.   0.00000   0.01000  
 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	1.1383	0.2483	0.438
BULL.17B ESTIMATE	0.0	1.0000	1.1383	0.2483	-0.249

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	2.8	4.0	0.0	0.0	6.4
0.9900	3.3	4.4	0.0	0.0	7.1
0.9500	5.2	5.8	1.6	0.0	9.6
0.9000	6.5	6.8	3.6	0.2	11.5
0.8000	8.6	8.4	6.8	0.7	14.8
0.5000	14.1	13.2	14.1	5.7	38.5
0.2000	22.4	21.9	27.3	13.0	296.2
0.1000	28.1	29.2	43.6	16.1	984.3
0.0400	35.6	40.6	--	19.3	3501.0
0.0200	41.2	50.6	--	21.4	7807.0
0.0100	46.8	62.3	--	23.3	15820.0
0.0050	52.5	75.7	--	25.1	29810.0
0.0020	60.1	96.7	--	27.4	63090.0
0.6667	11.0	( 1.50-year flood )			
0.4292	15.6	( 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
1926	13.0		1950	-16.0	K
1927	25.0		1951	-8.0	K
1928	8.0		1952	-13.0	K
1947	-5.0	K	1953	-8.0	K
1948	-10.0	K	1954	-6.0	K
1949	-11.0	K			

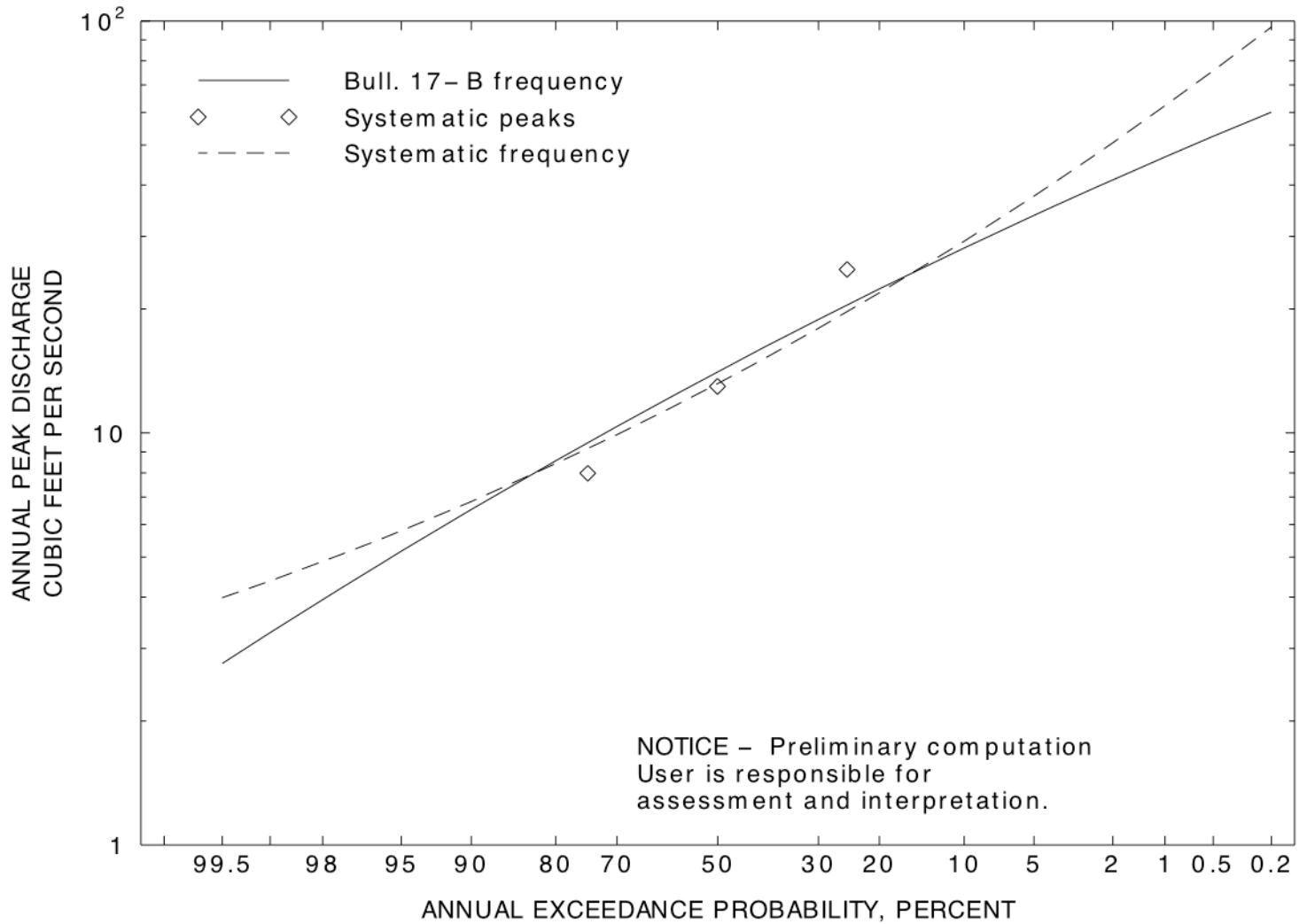
Explanation of peak discharge qualification codes

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
1927	25.0	0.2500	0.2500
1926	13.0	0.5000	0.5000
1928	8.0	0.7500	0.7500
1947	-5.0	--	--
1948	-10.0	--	--
1949	-11.0	--	--
1950	-16.0	--	--
1951	-8.0	--	--
1952	-13.0	--	--
1953	-8.0	--	--
1954	-6.0	--	--



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