

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

Station - 05361500 SOUTH FORK JUMP RIVER NEAR OGEMA, WI  
2002 MAR 13 09:02:50

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	=	0
Systematic peaks in analysis	=	11
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.241
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  
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION. 2256.9  
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE. 9956.4  
\*\*WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB. 0.00005 0.00200  
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	3.6758	0.1544	0.346
BULL.17B ESTIMATE	0.0	1.0000	3.6758	0.1544	-0.008

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	1893.0	2130.0	1455.0	1062.0	2531.0
0.9900	2069.0	2272.0	1693.0	1218.0	2713.0
0.9500	2640.0	2742.0	2415.0	1761.0	3294.0
0.9000	3005.0	3052.0	2846.0	2134.0	3670.0
0.8000	3515.0	3499.0	3421.0	2670.0	4215.0
0.5000	4743.0	4644.0	4743.0	3924.0	5733.0
0.2000	6394.0	6345.0	6569.0	5333.0	8420.0
0.1000	7473.0	7559.0	7887.0	6120.0	10520.0
0.0400	8823.0	9194.0	9759.0	7024.0	13460.0
0.0200	9822.0	10490.0	11360.0	7654.0	15830.0
0.0100	10810.0	11850.0	13190.0	8258.0	18340.0
0.0050	11810.0	13280.0	15310.0	8844.0	20990.0
0.0020	13140.0	15320.0	--	9601.0	24750.0
0.6667	4069.6	( 1.50-year flood )			
0.4292	5052.4	( 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
1944	3600.0		1950	6760.0	
1945	6160.0		1951	6320.0	
1946	9020.0		1952	4110.0	
1947	3300.0		1953	4560.0	
1948	2850.0		1954	5050.0	
1949	3570.0				

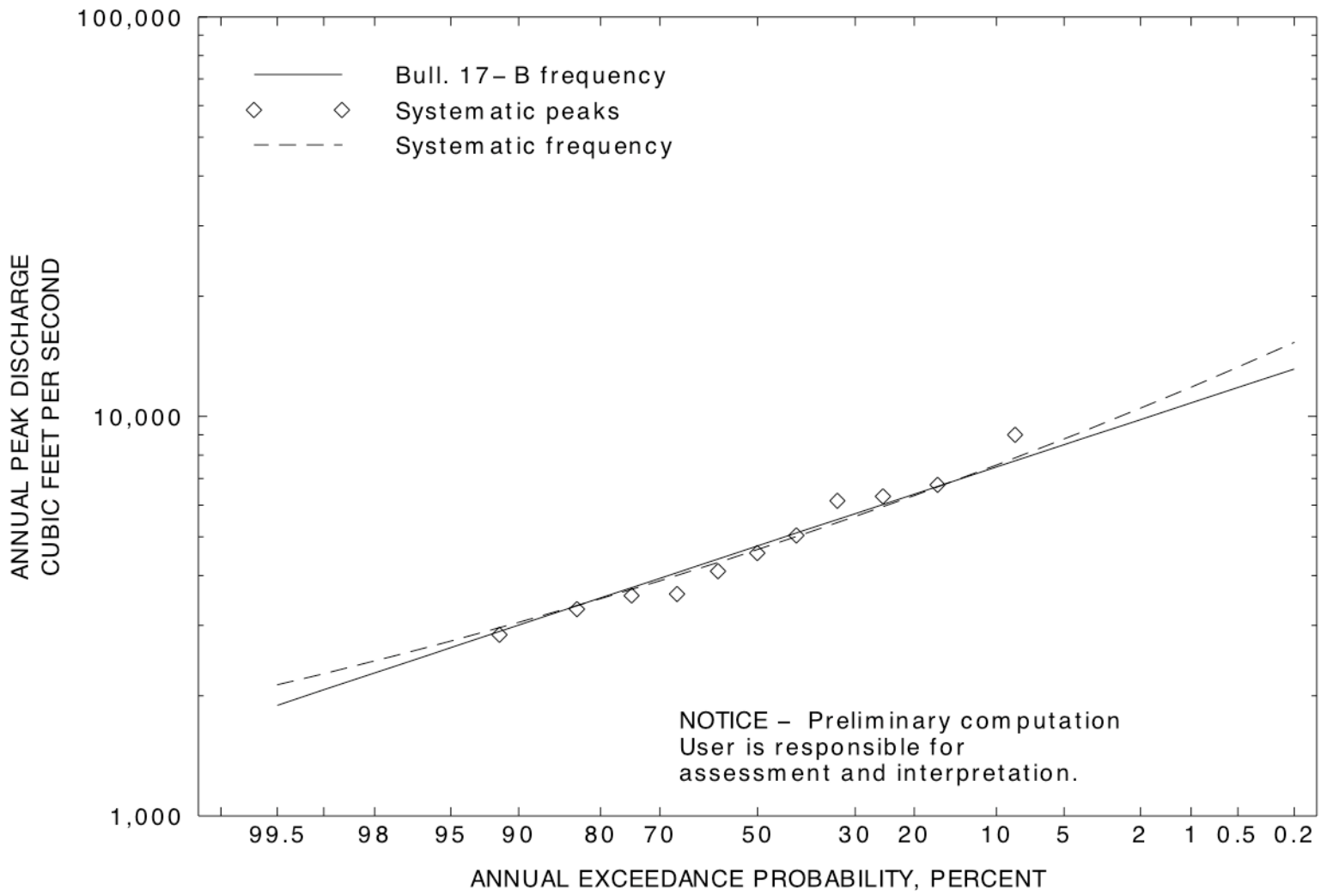
Explanation of peak discharge qualification codes

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
1946	9020.0	0.0833	0.0833
1950	6760.0	0.1667	0.1667
1951	6320.0	0.2500	0.2500
1945	6160.0	0.3333	0.3333
1954	5050.0	0.4167	0.4167
1953	4560.0	0.5000	0.5000
1952	4110.0	0.5833	0.5833
1944	3600.0	0.6667	0.6667
1949	3570.0	0.7500	0.7500
1947	3300.0	0.8333	0.8333
1948	2850.0	0.9167	0.9167



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