

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

Station - 05386500 COON CREEK AT COON VALLEY, WI  
 2002 MAR 13 09:02:59

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	10
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	10
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. \*\*\*\*\*

WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.	0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	500.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	9072.1
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00003    0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 2	

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 2002 MAR 13 09:02:59

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.3287	0.3089	0.163
BULL.17B ESTIMATE	0.0	1.0000	3.3287	0.3089	-0.183

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	302.0	380.4	149.3	80.3	568.3
0.9900	370.5	443.8	219.1	111.2	664.4
0.9500	638.2	684.3	512.2	260.9	1019.0
0.9000	845.7	868.1	741.7	401.1	1286.0
0.8000	1180.0	1166.0	1107.0	655.0	1724.0
0.5000	2178.0	2091.0	2178.0	1463.0	3267.0
0.2000	3900.0	3855.0	4126.0	2667.0	7064.0
0.1000	5225.0	5366.0	5831.0	3452.0	10860.0
0.0400	7073.0	7700.0	8646.0	4436.0	17250.0
0.0200	8560.0	9769.0	11370.0	5167.0	23200.0
0.0100	10130.0	12140.0	14810.0	5897.0	30210.0
0.0050	11790.0	14850.0	19180.0	6632.0	38370.0
0.0020	14110.0	19020.0	--	7615.0	51070.0
0.6667	1597.7	( 1.50-year flood )			
0.4292	2473.5	( 2.33-year flood )			

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2002 MAR 13 09:02:59

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	2510.0		1939	747.0	
1935	8110.0		1940	3410.0	
1936	1400.0		1979	3270.0	
1937	800.0		1980	1910.0	
1938	2810.0		1981	1900.0	

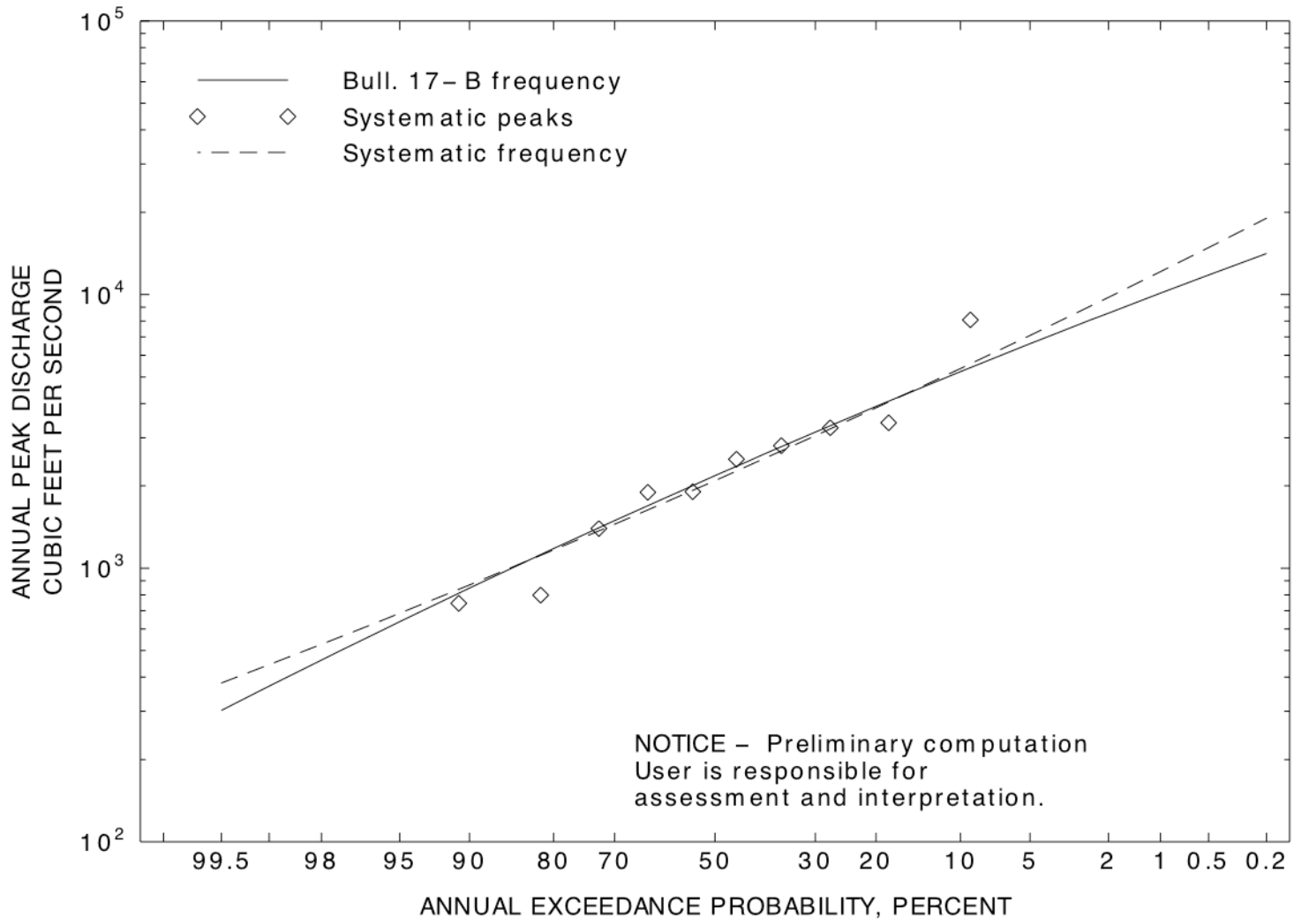
Explanation of peak discharge qualification codes

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
1935	8110.0	0.0909	0.0909
1940	3410.0	0.1818	0.1818
1979	3270.0	0.2727	0.2727
1938	2810.0	0.3636	0.3636
1934	2510.0	0.4545	0.4545
1980	1910.0	0.5455	0.5455
1981	1900.0	0.6364	0.6364
1936	1400.0	0.7273	0.7273
1937	800.0	0.8182	0.8182
1939	747.0	0.9091	0.9091



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