

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

Station - 05545300 WHITE RIVER NEAR BURLINGTON, WI  
 2002 MAR 13 09:03:28

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	24
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	24
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.	187.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	3345.9

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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	2.8991	0.2535	-0.057
BULL.17B ESTIMATE	0.0	1.0000	2.8991	0.2535	-0.198

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	158.2	170.8	129.5	90.1	227.0
0.9900	187.4	199.0	160.7	112.2	261.5
0.9500	294.1	300.7	274.7	199.5	382.8
0.9000	371.0	373.9	355.8	267.1	468.7
0.8000	488.2	485.9	478.2	373.5	600.6
0.5000	808.1	797.2	808.1	661.0	990.3
0.2000	1302.0	1298.0	1326.0	1057.0	1706.0
0.1000	1653.0	1669.0	1711.0	1312.0	2282.0
0.0400	2115.0	2177.0	2248.0	1627.0	3107.0
0.0200	2469.0	2582.0	2687.0	1857.0	3783.0
0.0100	2830.0	3007.0	3162.0	2085.0	4504.0
0.0050	3199.0	3455.0	3678.0	2311.0	5272.0
0.0020	3700.0	4084.0	4434.0	2609.0	6360.0
0.6667	626.5	( 1.50-year flood )			
0.4292	897.0	( 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	800.0		1971	1140.0	
1960	1900.0		1972	1140.0	
1961	480.0		1973	1470.0	
1962	790.0		1974	1080.0	
1963	420.0		1975	798.0	
1964	350.0		1976	1140.0	
1965	560.0		1977	258.0	
1966	1850.0		1978	722.0	
1967	1690.0		1979	771.0	
1968	467.0		1980	380.0	
1969	1960.0		1981	492.0	
1970	500.0		1982	1110.0	

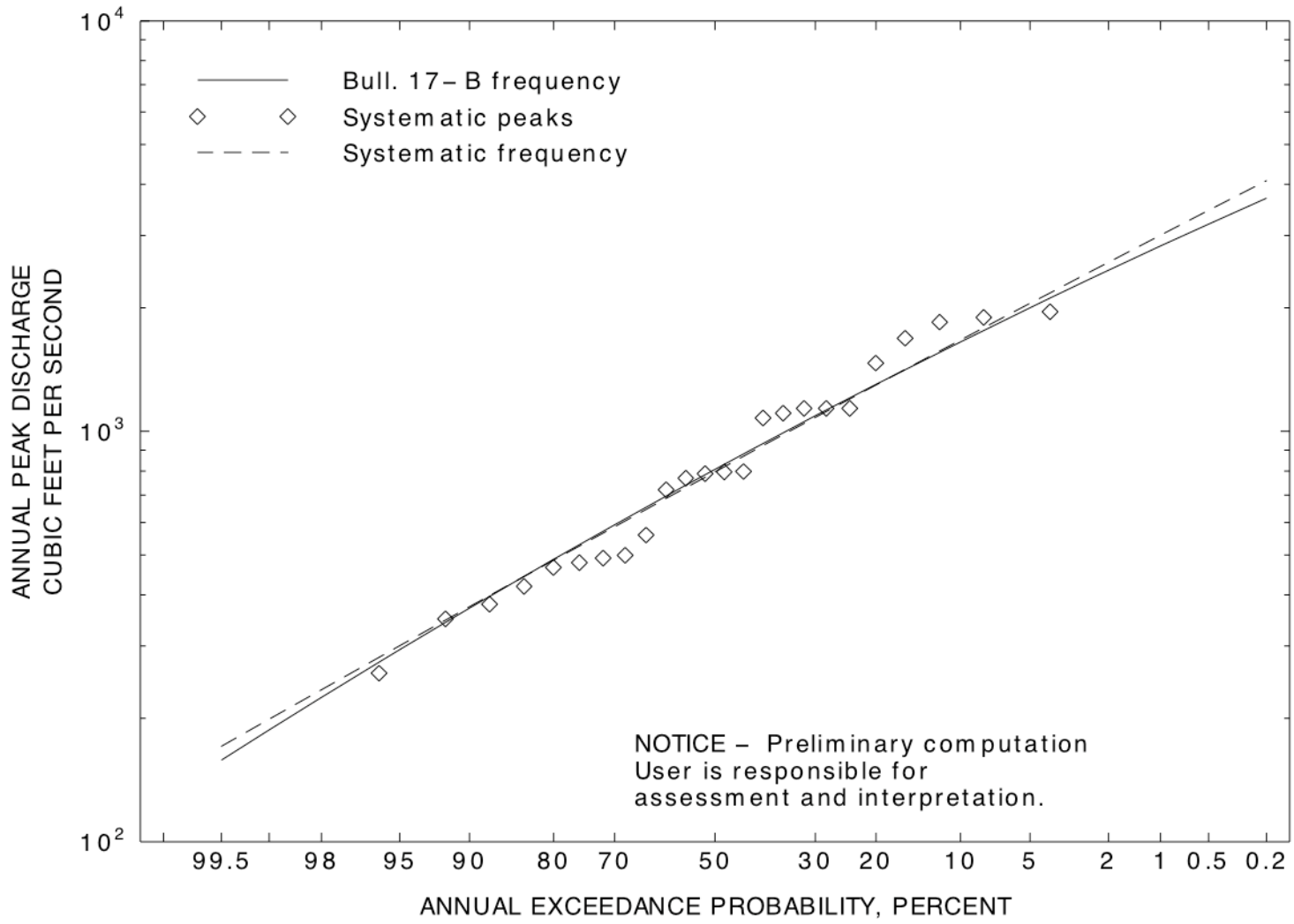
Explanation of peak discharge qualification codes

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	1960.0	0.0400	0.0400
1960	1900.0	0.0800	0.0800
1966	1850.0	0.1200	0.1200
1967	1690.0	0.1600	0.1600
1973	1470.0	0.2000	0.2000
1971	1140.0	0.2400	0.2400
1972	1140.0	0.2800	0.2800
1976	1140.0	0.3200	0.3200
1982	1110.0	0.3600	0.3600
1974	1080.0	0.4000	0.4000
1959	800.0	0.4400	0.4400
1975	798.0	0.4800	0.4800
1962	790.0	0.5200	0.5200
1979	771.0	0.5600	0.5600
1978	722.0	0.6000	0.6000
1965	560.0	0.6400	0.6400
1970	500.0	0.6800	0.6800
1981	492.0	0.7200	0.7200
1961	480.0	0.7600	0.7600
1968	467.0	0.8000	0.8000
1963	420.0	0.8400	0.8400
1980	380.0	0.8800	0.8800
1964	350.0	0.9200	0.9200
1977	258.0	0.9600	0.9600



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