

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

Station - 05358500 FLAMBEAU RIVER AT BABBS ISLAND, WI
 2002 JUL 10 11:20:50

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	46
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	46
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	0.000
Standard error of generalized skew	=	0.550
Skew option	=	STATION SKEW
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.		1029.0	
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		15481.7	
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	-0.380	-0.576	-1

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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	3.6011	0.2152	-0.576
BULL.17B ESTIMATE	0.0	1.0000	3.6011	0.2152	-0.576

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	854.7	854.7	765.3	602.8	1101.0
0.9900	1028.0	1028.0	945.6	751.0	1293.0
0.9500	1643.0	1643.0	1586.0	1308.0	1953.0
0.9000	2068.0	2068.0	2025.0	1710.0	2400.0
0.8000	2683.0	2683.0	2656.0	2301.0	3052.0
0.5000	4185.0	4185.0	4185.0	3709.0	4736.0
0.2000	6103.0	6103.0	6144.0	5356.0	7140.0
0.1000	7248.0	7248.0	7335.0	6279.0	8682.0
0.0400	8550.0	8550.0	8720.0	7292.0	10510.0
0.0200	9423.0	9423.0	9665.0	7954.0	11780.0
0.0100	10220.0	10220.0	10550.0	8550.0	12950.0
0.0050	10960.0	10960.0	11370.0	9092.0	14060.0
0.0020	11850.0	11850.0	12400.0	9739.0	15420.0
0.6667	3360.4	(1.50-year flood)			
0.4292	4571.3	(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
1930	1170.0	K	1953	6890.0	K
1931	2010.0	K	1954	6170.0	K
1932	1550.0	K	1955	3600.0	K
1933	2010.0	K	1956	3700.0	K
1934	2550.0	K	1957	1960.0	K
1935	4200.0	K	1958	5310.0	K
1936	4900.0	K	1959	3740.0	K
1937	1870.0	K	1960	4330.0	K
1938	4900.0	K	1961	3130.0	K
1939	6400.0	K	1962	1830.0	K
1940	2960.0	K	1963	1980.0	K
1941	7250.0	K	1964	2370.0	K
1942	3920.0	K	1965	5360.0	K
1943	7380.0	K	1966	5000.0	K
1944	5560.0	K	1967	8540.0	K
1945	4960.0	K	1968	5070.0	K
1946	9440.0	K	1969	3800.0	K
1947	3000.0	K	1970	5970.0	K
1948	2200.0	K	1971	4600.0	K
1949	6770.0	K	1972	5680.0	K
1950	6050.0	K	1973	5440.0	K
1951	5080.0	K	1974	3240.0	K
1952	5930.0	K	1975	4860.0	K

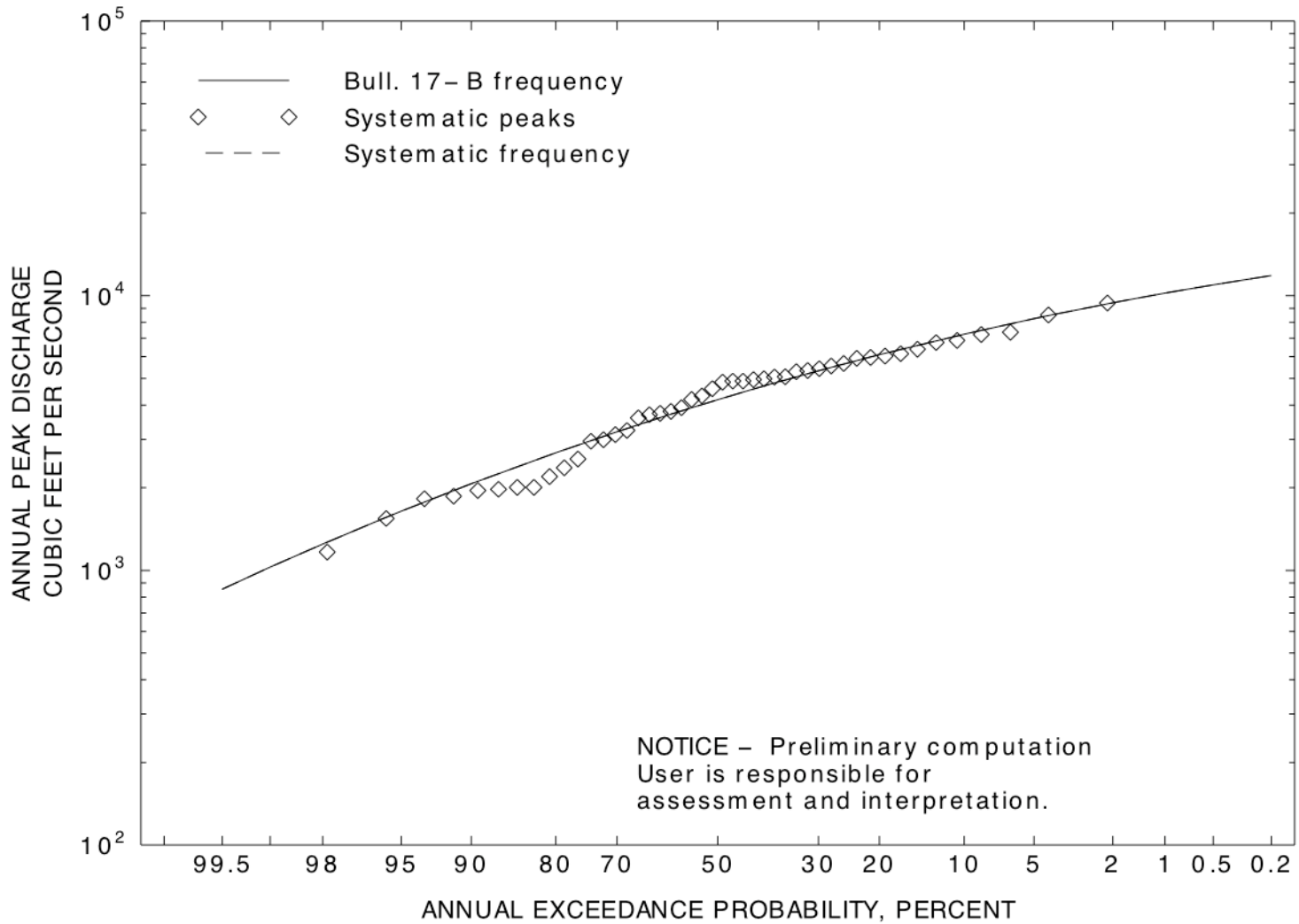
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
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	9440.0	0.0213	0.0213
1967	8540.0	0.0426	0.0426
1943	7380.0	0.0638	0.0638
1941	7250.0	0.0851	0.0851
1953	6890.0	0.1064	0.1064
1949	6770.0	0.1277	0.1277
1939	6400.0	0.1489	0.1489
1954	6170.0	0.1702	0.1702
1950	6050.0	0.1915	0.1915
1970	5970.0	0.2128	0.2128
1952	5930.0	0.2340	0.2340
1972	5680.0	0.2553	0.2553
1944	5560.0	0.2766	0.2766
1973	5440.0	0.2979	0.2979
1965	5360.0	0.3191	0.3191
1958	5310.0	0.3404	0.3404
1951	5080.0	0.3617	0.3617
1968	5070.0	0.3830	0.3830
1966	5000.0	0.4043	0.4043
1945	4960.0	0.4255	0.4255
1936	4900.0	0.4468	0.4468
1938	4900.0	0.4681	0.4681
1975	4860.0	0.4894	0.4894
1971	4600.0	0.5106	0.5106
1960	4330.0	0.5319	0.5319
1935	4200.0	0.5532	0.5532
1942	3920.0	0.5745	0.5745
1969	3800.0	0.5957	0.5957
1959	3740.0	0.6170	0.6170
1956	3700.0	0.6383	0.6383
1955	3600.0	0.6596	0.6596
1974	3240.0	0.6809	0.6809
1961	3130.0	0.7021	0.7021
1947	3000.0	0.7234	0.7234
1940	2960.0	0.7447	0.7447
1934	2550.0	0.7660	0.7660
1964	2370.0	0.7872	0.7872
1948	2200.0	0.8085	0.8085
1931	2010.0	0.8298	0.8298
1933	2010.0	0.8511	0.8511
1963	1980.0	0.8723	0.8723
1957	1960.0	0.8936	0.8936
1937	1870.0	0.9149	0.9149
1962	1830.0	0.9362	0.9362
1932	1550.0	0.9574	0.9574
1930	1170.0	0.9787	0.9787



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