

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

Station - 05359500 SOUTH FORK FLAMBEAU RIVER NR PHILLIPS, 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	=	46
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	46
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.210
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.	1397.6
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	12497.4

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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	3.6211	0.1739	-0.459
BULL.17B ESTIMATE	0.0	1.0000	3.6211	0.1739	-0.378

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	1294.0	1256.0	1197.0	989.7	1573.0
0.9900	1476.0	1443.0	1391.0	1158.0	1764.0
0.9500	2078.0	2062.0	2025.0	1734.0	2384.0
0.9000	2468.0	2463.0	2430.0	2119.0	2783.0
0.8000	3012.0	3020.0	2989.0	2659.0	3344.0
0.5000	4286.0	4309.0	4286.0	3886.0	4734.0
0.2000	5884.0	5888.0	5919.0	5296.0	6679.0
0.1000	6850.0	6818.0	6926.0	6094.0	7941.0
0.0400	7975.0	7878.0	8126.0	6990.0	9472.0
0.0200	8751.0	8594.0	8972.0	7593.0	10560.0
0.0100	9480.0	9254.0	9786.0	8150.0	11600.0
0.0050	10170.0	9870.0	10570.0	8671.0	12610.0
0.0020	11040.0	10630.0	11590.0	9315.0	13890.0
0.6667	3593.4	(1.50-year flood)			
0.4292	4603.9	(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	3180.0		1953	3020.0	
1931	3820.0		1954	6230.0	
1932	4380.0		1955	4240.0	
1933	3180.0		1956	3250.0	
1934	8680.0		1957	1900.0	
1935	5000.0		1958	5070.0	
1936	5780.0		1959	5420.0	
1937	2870.0		1960	4020.0	
1938	4400.0		1961	3480.0	
1939	4600.0		1962	2260.0	
1940	3100.0		1963	1760.0	
1941	5630.0		1964	2180.0	
1942	2930.0		1965	5690.0	
1943	10200.0		1966	3580.0	
1944	4500.0		1967	6900.0	
1945	5140.0		1968	4370.0	
1946	7460.0		1969	4930.0	
1947	3210.0		1970	3350.0	
1948	1480.0		1971	5880.0	
1949	4600.0		1972	5260.0	
1950	5490.0		1973	5510.0	
1951	5750.0		1974	3560.0	
1952	5030.0		1975	4780.0	

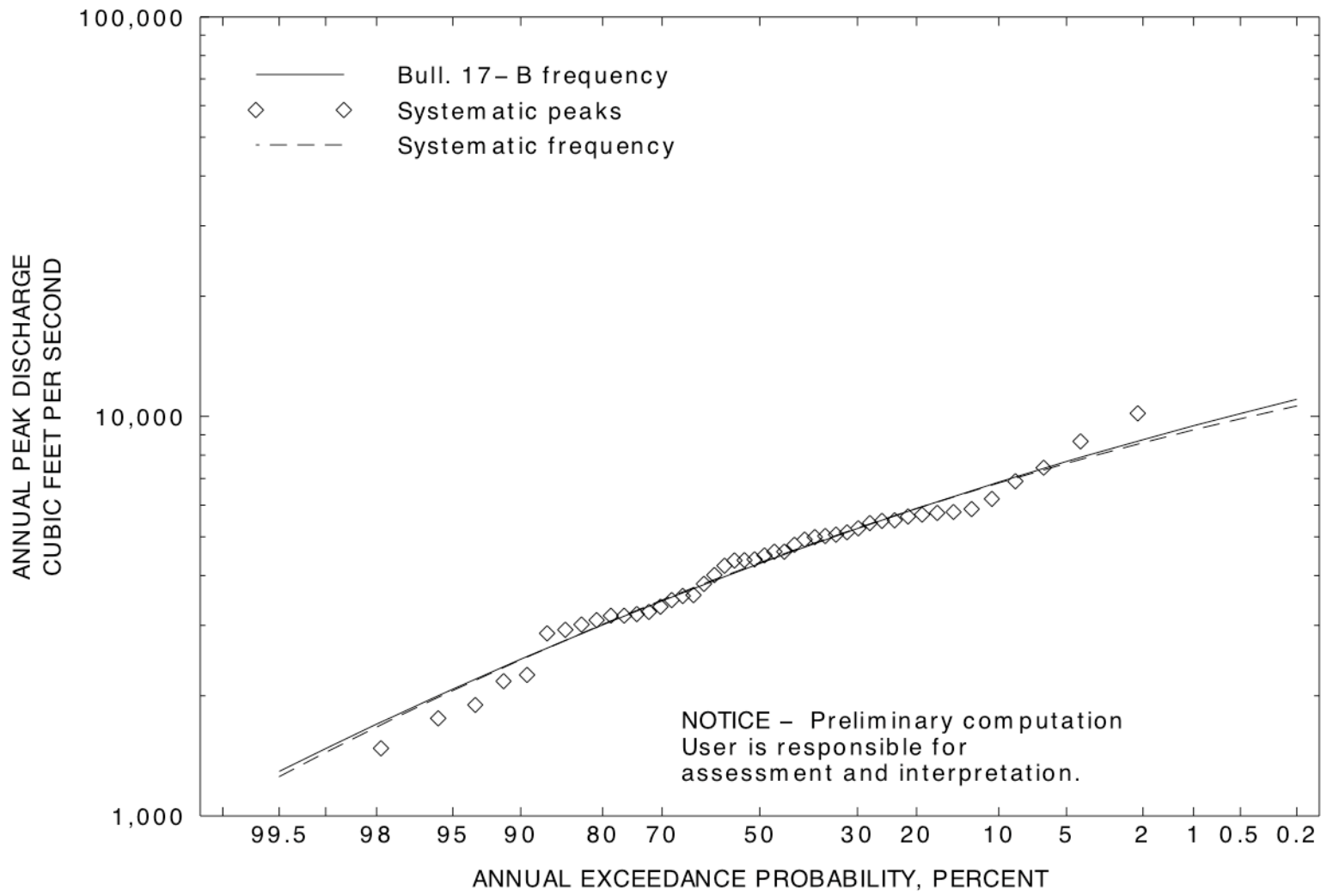
Explanation of peak discharge qualification codes

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
1943	10200.0	0.0213	0.0213
1934	8680.0	0.0426	0.0426
1946	7460.0	0.0638	0.0638
1967	6900.0	0.0851	0.0851
1954	6230.0	0.1064	0.1064
1971	5880.0	0.1277	0.1277
1936	5780.0	0.1489	0.1489
1951	5750.0	0.1702	0.1702
1965	5690.0	0.1915	0.1915
1941	5630.0	0.2128	0.2128
1973	5510.0	0.2340	0.2340
1950	5490.0	0.2553	0.2553
1959	5420.0	0.2766	0.2766
1972	5260.0	0.2979	0.2979
1945	5140.0	0.3191	0.3191
1958	5070.0	0.3404	0.3404
1952	5030.0	0.3617	0.3617
1935	5000.0	0.3830	0.3830
1969	4930.0	0.4043	0.4043
1975	4780.0	0.4255	0.4255
1939	4600.0	0.4468	0.4468
1949	4600.0	0.4681	0.4681
1944	4500.0	0.4894	0.4894
1938	4400.0	0.5106	0.5106
1932	4380.0	0.5319	0.5319
1968	4370.0	0.5532	0.5532
1955	4240.0	0.5745	0.5745
1960	4020.0	0.5957	0.5957
1931	3820.0	0.6170	0.6170
1966	3580.0	0.6383	0.6383
1974	3560.0	0.6596	0.6596
1961	3480.0	0.6809	0.6809
1970	3350.0	0.7021	0.7021
1956	3250.0	0.7234	0.7234
1947	3210.0	0.7447	0.7447
1930	3180.0	0.7660	0.7660
1933	3180.0	0.7872	0.7872
1940	3100.0	0.8085	0.8085
1953	3020.0	0.8298	0.8298
1942	2930.0	0.8511	0.8511
1937	2870.0	0.8723	0.8723
1962	2260.0	0.8936	0.8936
1964	2180.0	0.9149	0.9149
1957	1900.0	0.9362	0.9362
1963	1760.0	0.9574	0.9574
1948	1480.0	0.9787	0.9787



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