

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

Station - 05360000 FLAMBEAU RIVER NEAR LADYSMITH, WI
 2002 JUL 10 11:20:52

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

Number of peaks in record	=	74
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	74
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.		3016.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		24127.2
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	0.064	0.080 -1

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 2002 JUL 10 11:20:52

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.9310	0.1551	0.080
BULL.17B ESTIMATE	0.0	1.0000	3.9310	0.1551	0.080

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	3493.0	3493.0	3393.0	2981.0	3958.0
0.9900	3797.0	3797.0	3710.0	3278.0	4266.0
0.9500	4781.0	4781.0	4728.0	4254.0	5257.0
0.9000	5416.0	5416.0	5377.0	4891.0	5895.0
0.8000	6309.0	6309.0	6286.0	5787.0	6800.0
0.5000	8491.0	8491.0	8491.0	7925.0	9096.0
0.2000	11500.0	11500.0	11550.0	10680.0	12540.0
0.1000	13520.0	13520.0	13620.0	12420.0	14980.0
0.0400	16090.0	16090.0	16320.0	14560.0	18210.0
0.0200	18030.0	18030.0	18390.0	16150.0	20720.0
0.0100	19990.0	19990.0	20520.0	17720.0	23290.0
0.0050	21980.0	21980.0	22730.0	19290.0	25950.0
0.0020	24680.0	24680.0	25800.0	21400.0	29630.0
0.6667	7288.8	(1.50-year flood)			
0.4292	9046.8	(2.33-year flood)			

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 2002 JUL 10 11:20:52

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1927	8350.0	K	1964	4840.0	K
1928	8120.0	K	1965	8571.0	K
1929	7240.0	K	1966	7960.0	K
1930	5710.0	K	1967	12879.0	K
1931	5440.0	K	1968	9527.0	K
1932	7460.0	K	1969	8363.0	K
1933	5140.0	K	1970	8224.0	K
1934	7080.0	K	1971	10066.0	K
1935	8160.0	K	1972	8777.0	K
1936	10900.0	K	1973	9797.0	K
1937	5460.0	K	1974	6990.0	K
1938	10000.0	K	1975	9459.0	K
1939	9900.0	K	1976	8169.0	K
1940	5490.0	K	1977	8571.0	K
1941	17900.0	K	1978	7503.0	K
1942	6000.0	K	1979	9527.0	K
1943	17800.0	K	1980	7247.0	K
1944	10200.0	K	1981	8708.0	K
1945	13500.0	K	1982	12106.0	K
1946	18600.0	K	1983	9527.0	K
1947	6650.0	K	1984	6954.0	K
1948	4440.0	K	1985	8224.0	K
1949	14100.0	K	1986	13262.0	K
1950	13000.0	K	1987	7033.0	K
1951	14200.0	K	1988	5061.0	K
1952	10600.0	K	1989	4832.0	K
1953	10600.0	K	1990	6602.0	K
1954	13700.0	K	1991	7630.0	K
1955	7100.0	K	1992	9931.0	K
1956	6370.0	K	1993	12558.0	K
1957	4110.0	K	1994	17297.0	K
1958	10700.0	K	1995	8914.0	K
1959	9520.0	K	1996	13453.0	K
1960	8050.0	K	1997	12365.0	K
1961	7270.0	K	1998	10333.0	K
1962	4601.0	K	1999	6165.0	K
1963	4274.0	K	2000	7304.0	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

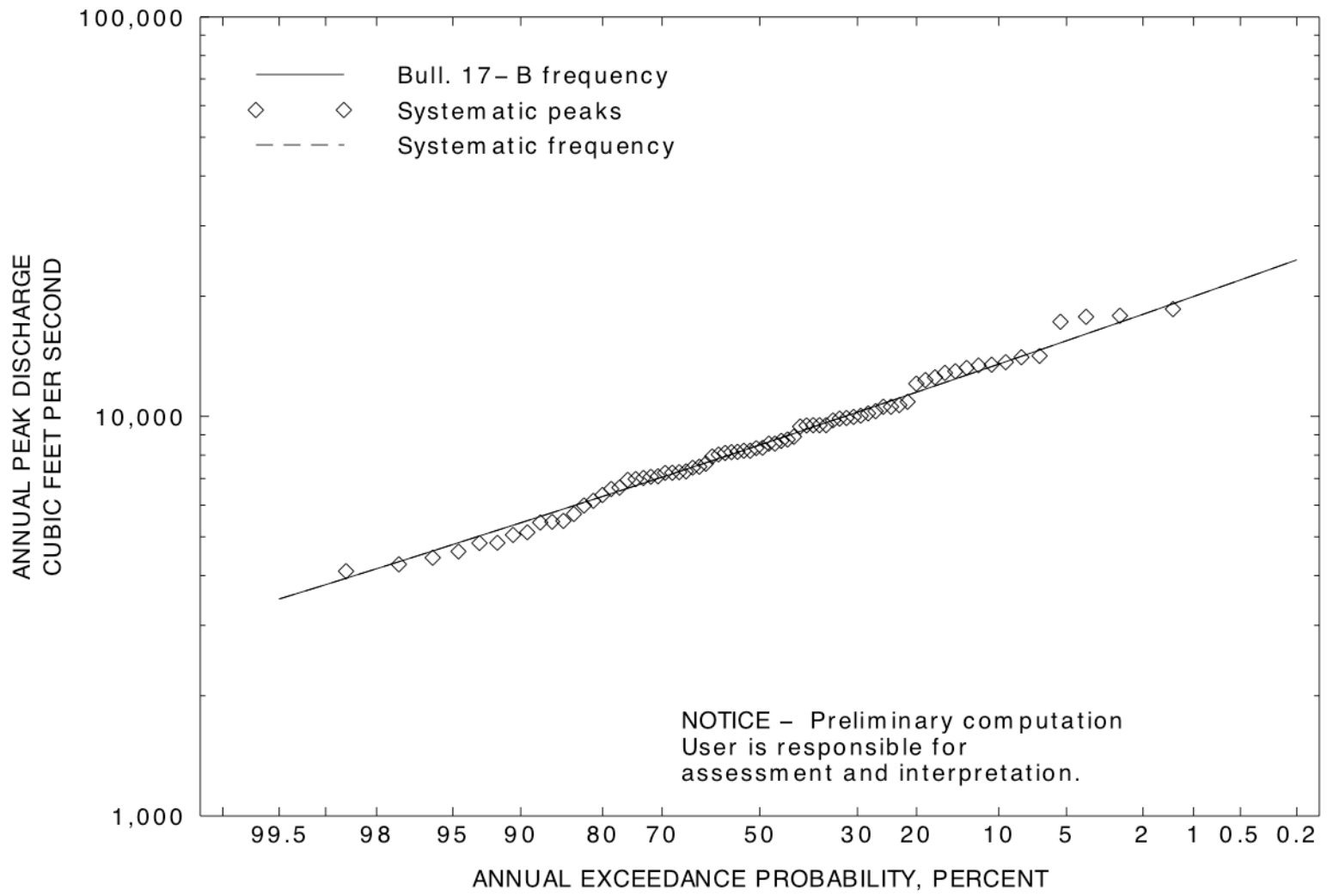
K 6 OR C Known effect of regulation or urbanization
H 7 Historic peak

Station - 05360000 FLAMBEAU RIVER NEAR LADYSMITH, WI
2002 JUL 10 11:20:52

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1946	18600.0	0.0133	0.0133
1941	17900.0	0.0267	0.0267
1943	17800.0	0.0400	0.0400
1994	17297.0	0.0533	0.0533
1951	14200.0	0.0667	0.0667
1949	14100.0	0.0800	0.0800
1954	13700.0	0.0933	0.0933
1945	13500.0	0.1067	0.1067
1996	13453.0	0.1200	0.1200
1986	13262.0	0.1333	0.1333
1950	13000.0	0.1467	0.1467
1967	12879.0	0.1600	0.1600
1993	12558.0	0.1733	0.1733
1997	12365.0	0.1867	0.1867
1982	12106.0	0.2000	0.2000
1936	10900.0	0.2133	0.2133
1958	10700.0	0.2267	0.2267
1952	10600.0	0.2400	0.2400
1953	10600.0	0.2533	0.2533
1998	10333.0	0.2667	0.2667
1944	10200.0	0.2800	0.2800
1971	10066.0	0.2933	0.2933
1938	10000.0	0.3067	0.3067
1992	9931.0	0.3200	0.3200
1939	9900.0	0.3333	0.3333
1973	9797.0	0.3467	0.3467
1968	9527.0	0.3600	0.3600
1979	9527.0	0.3733	0.3733
1983	9527.0	0.3867	0.3867
1959	9520.0	0.4000	0.4000
1975	9459.0	0.4133	0.4133
1995	8914.0	0.4267	0.4267
1972	8777.0	0.4400	0.4400
1981	8708.0	0.4533	0.4533
1965	8571.0	0.4667	0.4667
1977	8571.0	0.4800	0.4800
1969	8363.0	0.4933	0.4933
1927	8350.0	0.5067	0.5067
1970	8224.0	0.5200	0.5200
1985	8224.0	0.5333	0.5333
1976	8169.0	0.5467	0.5467
1935	8160.0	0.5600	0.5600
1928	8120.0	0.5733	0.5733
1960	8050.0	0.5867	0.5867
1966	7960.0	0.6000	0.6000
1991	7630.0	0.6133	0.6133
1978	7503.0	0.6267	0.6267
1932	7460.0	0.6400	0.6400

2000	7304.0	0.6533	0.6533
1961	7270.0	0.6667	0.6667
1980	7247.0	0.6800	0.6800
1929	7240.0	0.6933	0.6933
1955	7100.0	0.7067	0.7067
1934	7080.0	0.7200	0.7200
1987	7033.0	0.7333	0.7333
1974	6990.0	0.7467	0.7467
1984	6954.0	0.7600	0.7600
1947	6650.0	0.7733	0.7733
1990	6602.0	0.7867	0.7867
1956	6370.0	0.8000	0.8000
1999	6165.0	0.8133	0.8133
1942	6000.0	0.8267	0.8267
1930	5710.0	0.8400	0.8400
1940	5490.0	0.8533	0.8533
1937	5460.0	0.8667	0.8667
1931	5440.0	0.8800	0.8800
1933	5140.0	0.8933	0.8933
1988	5061.0	0.9067	0.9067
1964	4840.0	0.9200	0.9200
1989	4832.0	0.9333	0.9333
1962	4601.0	0.9467	0.9467
1948	4440.0	0.9600	0.9600
1963	4274.0	0.9733	0.9733
1957	4110.0	0.9867	0.9867



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2002 JUL 10 11:20:52