

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

Station - 05332500 NAMEKAGON RIVER NEAR TREGO, WI  
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I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	56
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	56
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	4085.7
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		434.3
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	0.591	0.927 -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	3.1245	0.1732	0.927
BULL.17B ESTIMATE	0.0	1.0000	3.1245	0.1732	0.927

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	669.5	669.5	660.4	571.0	758.2
0.9900	692.7	692.7	684.0	593.7	781.8
0.9500	779.8	779.8	773.0	679.8	870.6
0.9000	844.9	844.9	839.8	744.5	937.1
0.8000	947.8	947.8	944.4	846.7	1043.0
0.5000	1254.0	1254.0	1254.0	1145.0	1369.0
0.2000	1808.0	1808.0	1821.0	1646.0	2016.0
0.1000	2272.0	2272.0	2309.0	2036.0	2606.0
0.0400	2987.0	2987.0	3082.0	2605.0	3568.0
0.0200	3624.0	3624.0	3799.0	3093.0	4467.0
0.0100	4362.0	4362.0	4660.0	3642.0	5547.0
0.0050	5219.0	5219.0	5705.0	4263.0	6846.0
0.0020	6569.0	6569.0	7428.0	5212.0	8972.0
0.6667	1076.6	( 1.50-year flood )			
0.4292	1339.2	( 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
1928	1360.0	K	1956	1630.0	K
1929	1150.0	K	1957	1120.0	K
1930	844.0	K	1958	2380.0	K
1931	855.0	K	1959	886.0	K
1932	727.0	K	1960	1420.0	K
1933	751.0	K	1961	1480.0	K
1934	867.0	K	1962	1200.0	K
1935	957.0	K	1963	657.0	K
1936	1340.0	K	1964	1280.0	K
1937	893.0	K	1965	1640.0	K
1938	1300.0	K	1966	1280.0	K
1939	1020.0	K	1967	1740.0	K
1940	773.0	K	1968	1380.0	K
1941	5200.0	K	1969	1740.0	K
1942	1280.0	K	1970	927.0	K
1943	1190.0	K	1988	1200.0	K
1944	2210.0	K	1989	1130.0	K
1945	1760.0	K	1990	1320.0	K
1946	1120.0	K	1991	1790.0	K
1947	959.0	K	1992	2910.0	K
1948	957.0	K	1993	1080.0	K
1949	1170.0	K	1994	3060.0	K
1950	2160.0	K	1995	1100.0	K
1951	1500.0	K	1996	2160.0	K
1952	1480.0	K	1997	2610.0	K
1953	1330.0	K	1998	1830.0	K
1954	2140.0	K	1999	1120.0	K
1955	1120.0	K	2000	1020.0	K

Explanation of peak discharge qualification codes

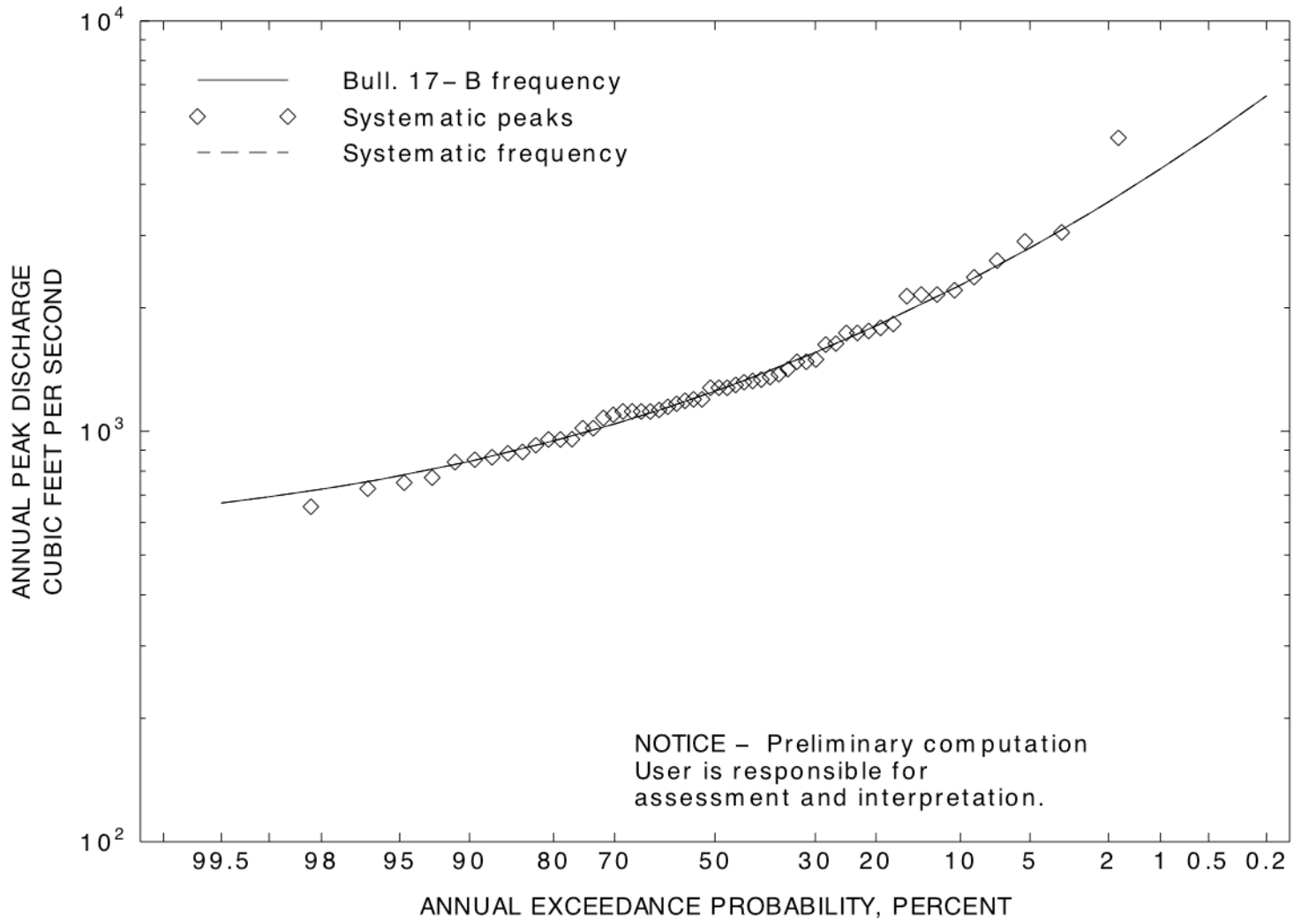
PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1941	5200.0	0.0175	0.0175
1994	3060.0	0.0351	0.0351
1992	2910.0	0.0526	0.0526
1997	2610.0	0.0702	0.0702
1958	2380.0	0.0877	0.0877
1944	2210.0	0.1053	0.1053
1950	2160.0	0.1228	0.1228
1996	2160.0	0.1404	0.1404
1954	2140.0	0.1579	0.1579
1998	1830.0	0.1754	0.1754
1991	1790.0	0.1930	0.1930
1945	1760.0	0.2105	0.2105
1967	1740.0	0.2281	0.2281
1969	1740.0	0.2456	0.2456
1965	1640.0	0.2632	0.2632
1956	1630.0	0.2807	0.2807
1951	1500.0	0.2982	0.2982
1952	1480.0	0.3158	0.3158
1961	1480.0	0.3333	0.3333
1960	1420.0	0.3509	0.3509
1968	1380.0	0.3684	0.3684
1928	1360.0	0.3860	0.3860
1936	1340.0	0.4035	0.4035
1953	1330.0	0.4211	0.4211
1990	1320.0	0.4386	0.4386
1938	1300.0	0.4561	0.4561
1942	1280.0	0.4737	0.4737
1964	1280.0	0.4912	0.4912
1966	1280.0	0.5088	0.5088
1962	1200.0	0.5263	0.5263
1988	1200.0	0.5439	0.5439
1943	1190.0	0.5614	0.5614
1949	1170.0	0.5789	0.5789
1929	1150.0	0.5965	0.5965
1989	1130.0	0.6140	0.6140
1946	1120.0	0.6316	0.6316
1955	1120.0	0.6491	0.6491
1957	1120.0	0.6667	0.6667
1999	1120.0	0.6842	0.6842
1995	1100.0	0.7018	0.7018
1993	1080.0	0.7193	0.7193
1939	1020.0	0.7368	0.7368
2000	1020.0	0.7544	0.7544
1947	959.0	0.7719	0.7719
1935	957.0	0.7895	0.7895
1948	957.0	0.8070	0.8070
1970	927.0	0.8246	0.8246
1937	893.0	0.8421	0.8421

1959	886.0	0.8596	0.8596
1934	867.0	0.8772	0.8772
1931	855.0	0.8947	0.8947
1930	844.0	0.9123	0.9123
1940	773.0	0.9298	0.9298
1933	751.0	0.9474	0.9474
1932	727.0	0.9649	0.9649
1963	657.0	0.9825	0.9825



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