

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

Station - 05401800 YELLOW RIVER TRIBUTARY NEAR PITTSVILLE, WI
 2002 MAR 13 09:03:06

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

Number of peaks in record	=	42
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	42
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.330
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	100.0
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. *****

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	1	100.0
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	107.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1215.8

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	100.0	0.9762	2.5703	0.2064	-0.618
BULL.17B ESTIMATE	107.8	0.9524	2.5782	0.1911	-0.346

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
0.9500	176.3	158.0	171.0	143.0	206.3
0.9000	212.5	197.7	208.5	178.1	243.8
0.8000	263.9	254.5	261.5	228.4	297.5
0.5000	388.3	390.3	388.3	346.9	435.5
0.2000	551.3	558.8	555.2	488.5	638.3
0.1000	653.0	656.8	661.9	570.9	775.2
0.0400	774.3	766.1	792.4	665.4	946.2
0.0200	859.8	838.1	886.9	730.1	1071.0
0.0100	941.2	902.9	979.4	790.7	1192.0
0.0050	1020.0	961.9	1071.0	848.0	1312.0
0.0020	1119.0	1032.0	1191.0	919.8	1466.0
0.6667	320.1	(1.50-year flood)			
0.4292	420.1	(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	350.0		1980	700.0	
1960	260.0		1981	550.0	
1961	320.0		1982	350.0	
1962	280.0		1983	530.0	
1963	280.0		1984	525.0	
1964	340.0		1985	325.0	
1965	600.0		1986	660.0	
1966	300.0		1987	100.0	L
1967	540.0		1988	265.0	
1968	590.0		1989	360.0	
1969	580.0		1990	690.0	
1970	475.0		1991	390.0	
1971	240.0		1992	150.0	
1972	470.0		1993	715.0	
1973	810.0		1994	160.0	
1974	325.0		1995	240.0	
1975	360.0		1996	318.0	
1976	670.0		1997	230.0	
1977	470.0		1998	105.0	
1978	470.0		1999	191.0	
1979	450.0		2000	430.0	

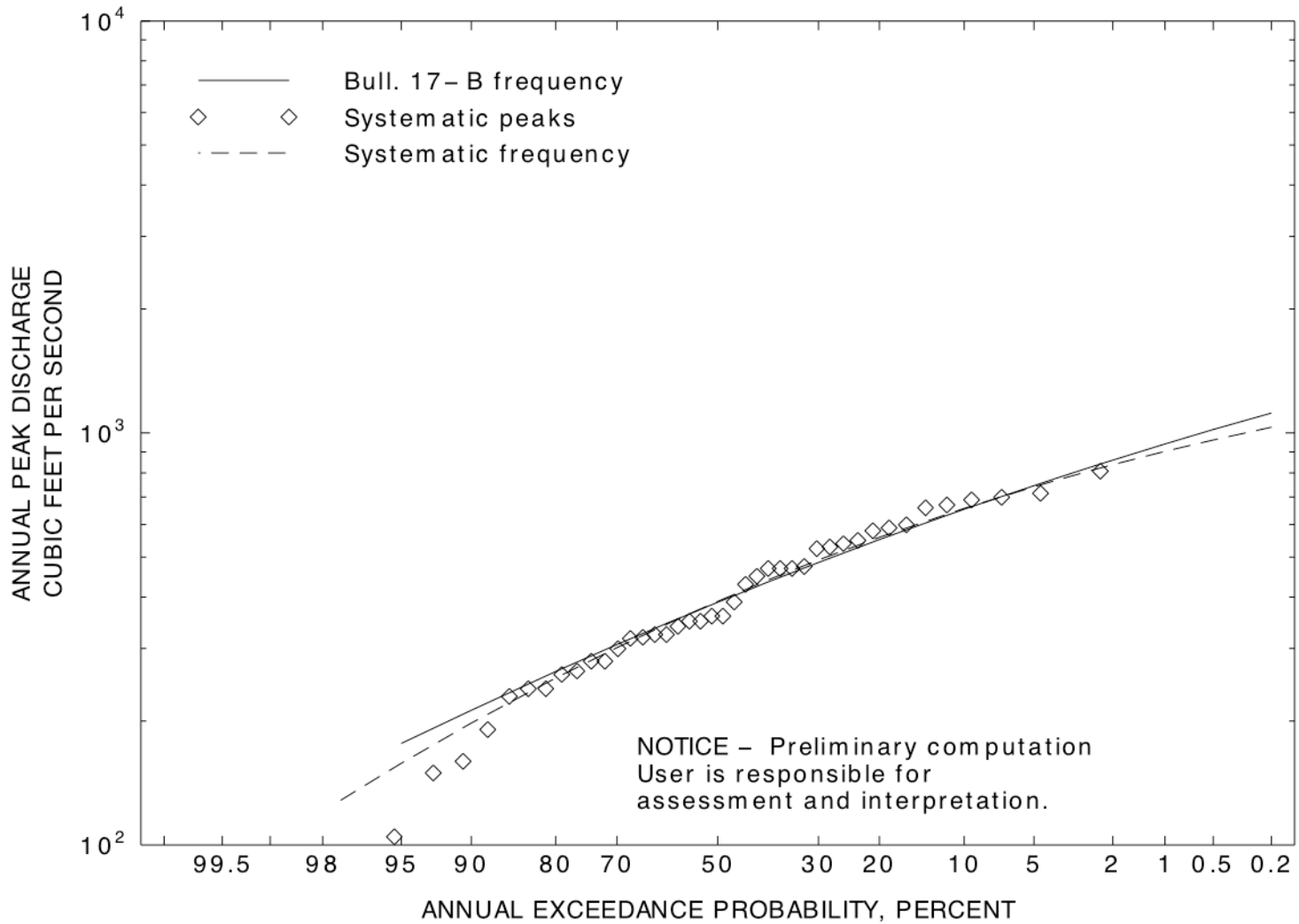
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE 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
1973	810.0	0.0233	0.0233
1993	715.0	0.0465	0.0465
1980	700.0	0.0698	0.0698
1990	690.0	0.0930	0.0930
1976	670.0	0.1163	0.1163
1986	660.0	0.1395	0.1395
1965	600.0	0.1628	0.1628
1968	590.0	0.1860	0.1860
1969	580.0	0.2093	0.2093
1981	550.0	0.2326	0.2326
1967	540.0	0.2558	0.2558
1983	530.0	0.2791	0.2791
1984	525.0	0.3023	0.3023
1970	475.0	0.3256	0.3256
1972	470.0	0.3488	0.3488
1977	470.0	0.3721	0.3721
1978	470.0	0.3953	0.3953
1979	450.0	0.4186	0.4186
2000	430.0	0.4419	0.4419
1991	390.0	0.4651	0.4651
1975	360.0	0.4884	0.4884
1989	360.0	0.5116	0.5116
1959	350.0	0.5349	0.5349
1982	350.0	0.5581	0.5581
1964	340.0	0.5814	0.5814
1974	325.0	0.6047	0.6047
1985	325.0	0.6279	0.6279
1961	320.0	0.6512	0.6512
1996	318.0	0.6744	0.6744
1966	300.0	0.6977	0.6977
1962	280.0	0.7209	0.7209
1963	280.0	0.7442	0.7442
1988	265.0	0.7674	0.7674
1960	260.0	0.7907	0.7907
1971	240.0	0.8140	0.8140
1995	240.0	0.8372	0.8372
1997	230.0	0.8605	0.8605
1999	191.0	0.8837	0.8837
1994	160.0	0.9070	0.9070
1992	150.0	0.9302	0.9302
1998	105.0	0.9535	0.9535
1987	100.0	--	--



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