

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

Station - 05430175 YAHARA RIVER NEAR FULTON, 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	=	23
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	23
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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		4115.3
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		629.4
*WCF151I-17B WEIGHTED SKEW REPLACED BY USER OPTION.	0.269	0.502 -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	3.2067	0.1666	0.502
BULL.17B ESTIMATE	0.0	1.0000	3.2067	0.1666	0.502

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	717.6	717.6	670.9	528.4	876.5
0.9900	761.0	761.0	719.7	569.9	921.1
0.9500	908.8	908.8	881.6	714.5	1073.0
0.9000	1010.0	1010.0	989.8	815.2	1176.0
0.8000	1159.0	1159.0	1146.0	965.3	1333.0
0.5000	1559.0	1559.0	1559.0	1358.0	1782.0
0.2000	2194.0	2194.0	2229.0	1911.0	2624.0
0.1000	2673.0	2673.0	2762.0	2284.0	3345.0
0.0400	3349.0	3349.0	3567.0	2774.0	4452.0
0.0200	3906.0	3906.0	4289.0	3158.0	5427.0
0.0100	4511.0	4511.0	5135.0	3560.0	6543.0
0.0050	5170.0	5170.0	6144.0	3984.0	7817.0
0.0020	6137.0	6137.0	7805.0	4587.0	9786.0
0.6667	1332.9	(1.50-year flood)			
0.4292	1665.9	(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
1978	2870.0		1990	1080.0	
1979	1100.0		1991	1370.0	K
1980	1050.0		1992	1470.0	K
1981	3040.0		1993	1820.0	K
1982	1810.0		1994	2730.0	K
1983	1070.0		1995	976.0	K
1984	1250.0		1996	3230.0	K
1985	1650.0		1997	2120.0	K
1986	1220.0		1998	1480.0	K
1987	1070.0		1999	2490.0	K
1988	1300.0		2000	2260.0	K
1989	1380.0				

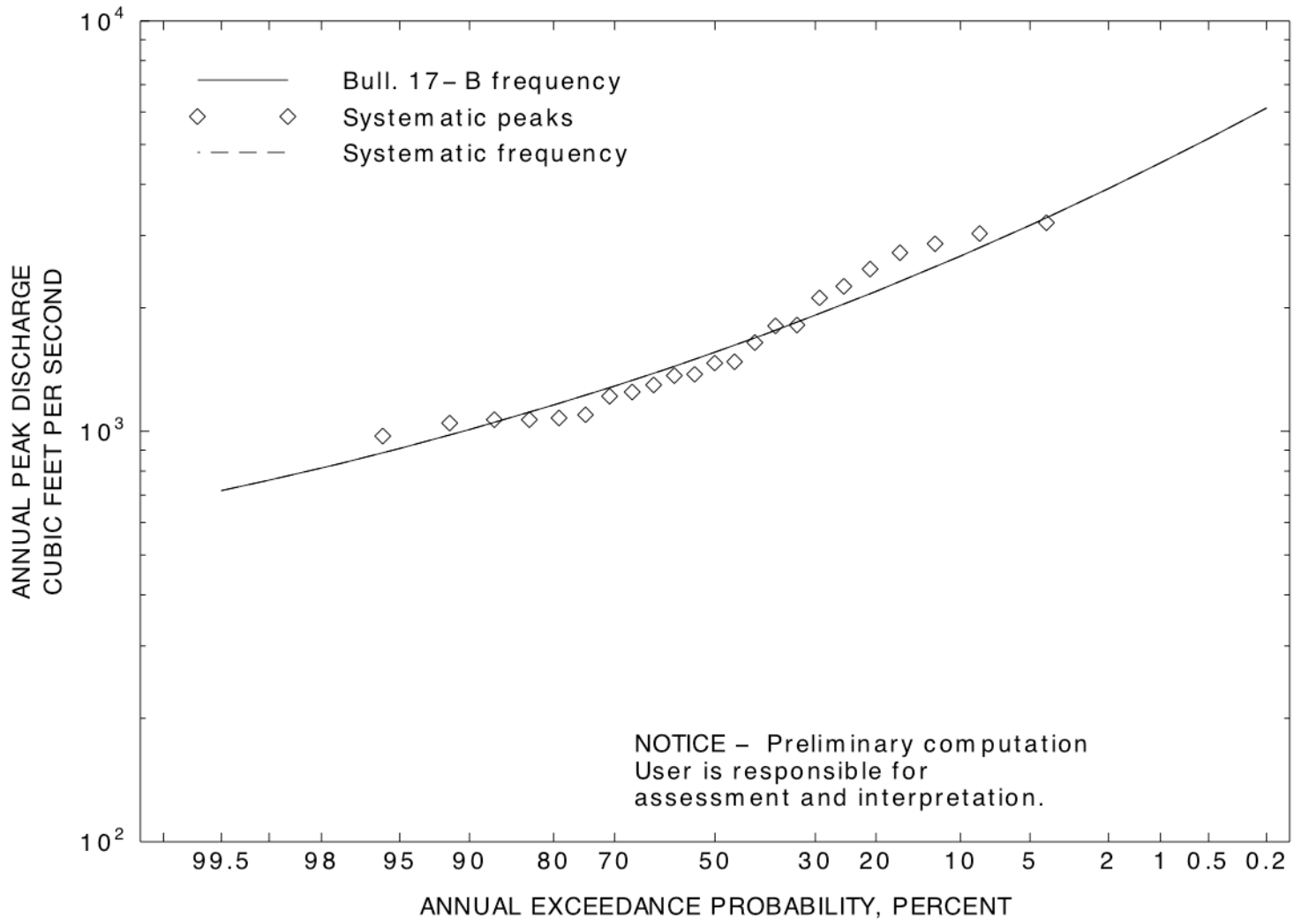
Explanation of peak discharge qualification codes

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
1996	3230.0	0.0417	0.0417
1981	3040.0	0.0833	0.0833
1978	2870.0	0.1250	0.1250
1994	2730.0	0.1667	0.1667
1999	2490.0	0.2083	0.2083
2000	2260.0	0.2500	0.2500
1997	2120.0	0.2917	0.2917
1993	1820.0	0.3333	0.3333
1982	1810.0	0.3750	0.3750
1985	1650.0	0.4167	0.4167
1998	1480.0	0.4583	0.4583
1992	1470.0	0.5000	0.5000
1989	1380.0	0.5417	0.5417
1991	1370.0	0.5833	0.5833
1988	1300.0	0.6250	0.6250
1984	1250.0	0.6667	0.6667
1986	1220.0	0.7083	0.7083
1979	1100.0	0.7500	0.7500
1990	1080.0	0.7917	0.7917
1983	1070.0	0.8333	0.8333
1987	1070.0	0.8750	0.8750
1980	1050.0	0.9167	0.9167
1995	976.0	0.9583	0.9583



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