

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

Station - 05399200 MARSH CREEK TRIBUTARY NEAR ABBOTSFORD, WI
 2002 MAR 13 09:03:04

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

Number of peaks in record	=	22
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	22
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.282
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.	20.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	702.0

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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	2.0775	0.3165	-0.340
BULL.17B ESTIMATE	0.0	1.0000	2.0775	0.3165	-0.313

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	14.8	14.5	10.9	6.8	23.9
0.9900	18.6	18.3	14.8	9.2	28.9
0.9500	33.9	33.7	30.7	20.2	47.9
0.9000	46.0	45.9	43.3	29.7	62.4
0.8000	65.6	65.7	63.7	46.2	85.9
0.5000	124.2	124.6	124.2	95.6	162.2
0.2000	222.6	222.7	227.9	169.8	317.9
0.1000	295.8	295.0	309.2	219.5	451.8
0.0400	394.5	391.7	426.3	282.0	650.7
0.0200	471.2	466.1	523.6	328.1	817.6
0.0100	549.9	542.0	630.3	373.8	998.4
0.0050	630.6	619.2	746.9	419.1	1193.0
0.0020	740.1	723.2	918.2	478.9	1470.0
0.6667	90.2	(1.50-year flood)			
0.4292	141.5	(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	80.0		1970	165.0	
1960	75.0		1971	140.0	
1961	100.0		1972	215.0	
1962	70.0		1973	185.0	
1963	45.0		1974	40.0	
1964	165.0		1975	125.0	
1965	45.0		1976	155.0	
1966	200.0		1977	55.0	
1967	30.0		1978	230.0	
1968	315.0		1979	290.0	
1969	190.0		1980	385.0	

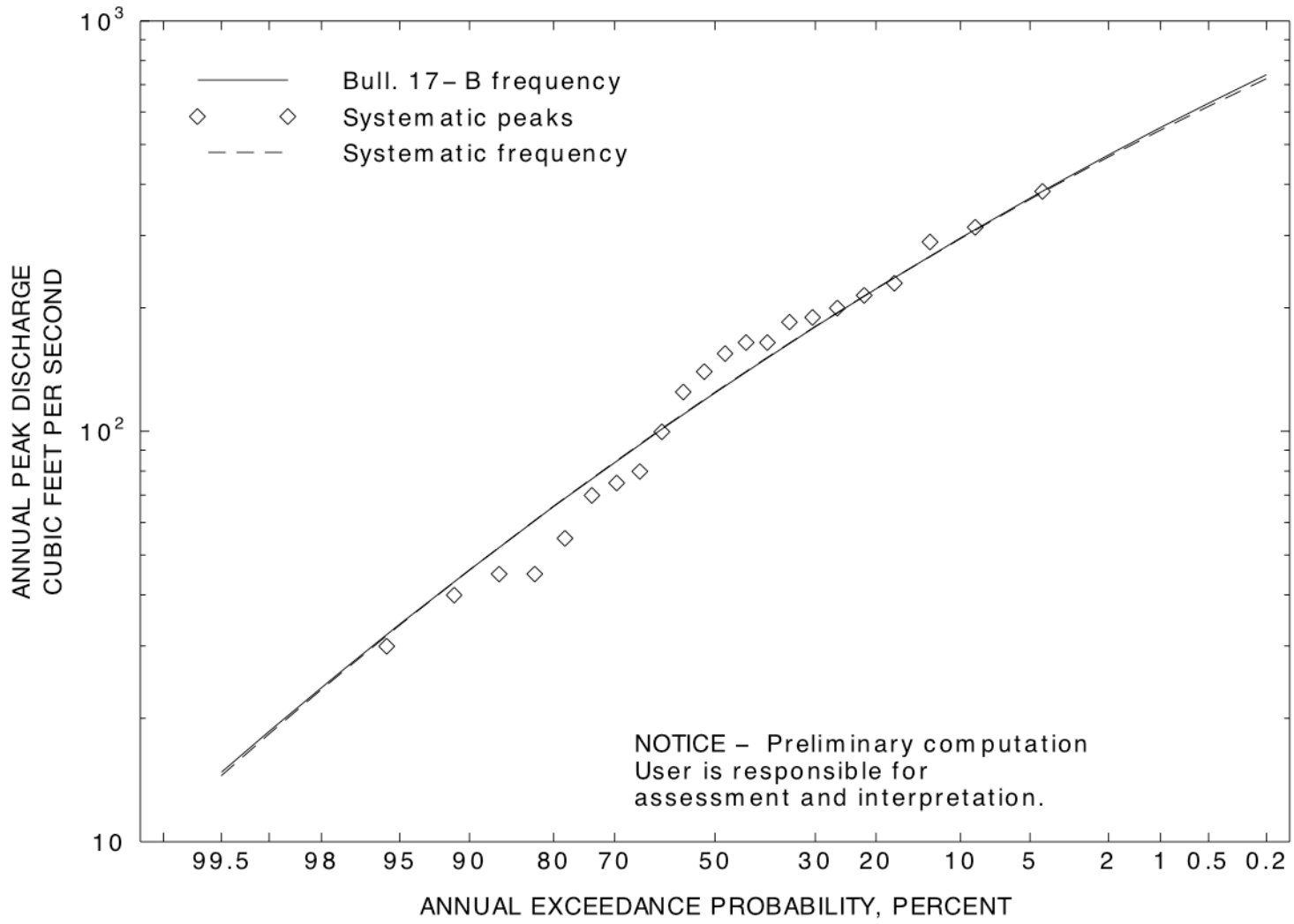
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	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
1980	385.0	0.0435	0.0435
1968	315.0	0.0870	0.0870
1979	290.0	0.1304	0.1304
1978	230.0	0.1739	0.1739
1972	215.0	0.2174	0.2174
1966	200.0	0.2609	0.2609
1969	190.0	0.3043	0.3043
1973	185.0	0.3478	0.3478
1964	165.0	0.3913	0.3913
1970	165.0	0.4348	0.4348
1976	155.0	0.4783	0.4783
1971	140.0	0.5217	0.5217
1975	125.0	0.5652	0.5652
1961	100.0	0.6087	0.6087
1959	80.0	0.6522	0.6522
1960	75.0	0.6957	0.6957
1962	70.0	0.7391	0.7391
1977	55.0	0.7826	0.7826
1963	45.0	0.8261	0.8261
1965	45.0	0.8696	0.8696
1974	40.0	0.9130	0.9130
1967	30.0	0.9565	0.9565



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