

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

Station - 05359200 SOUTH FK FLAMBEAU R TRIB NR PARK FALLS, WI
 2002 MAR 13 09:02:50

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

Number of peaks in record	=	20
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	20
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.188
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	15.0
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.	7	15.0	
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		14.7	
**WCF199W-NUMBER OF PEAKS BELOW FLOOD BASE EXCEEDS 17B SPEC.	7	15.0	5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		134.0	
WCF002J-CALCS COMPLETED. RETURN CODE = 2			

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	15.0	0.6500	1.4505	0.3505	-0.612
BULL.17B ESTIMATE	15.0	0.6500	1.4505	0.3505	-0.399

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
0.5000	29.8	30.6	29.8	22.0	40.7
0.2000	56.3	56.4	57.8	41.1	85.6
0.1000	76.2	74.2	80.3	54.0	125.2
0.0400	103.1	96.5	112.7	70.3	184.7
0.0200	124.0	112.5	139.7	82.1	234.8
0.0100	145.2	127.8	169.2	93.8	289.0
0.0050	166.8	142.4	201.3	105.3	347.1
0.0020	195.8	160.7	247.8	120.3	429.3
0.6667	1.50-year flood below base				
0.4292	34.4 (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
1960	35.0		1971	22.0	
1961	44.0		1972	62.0	
1962	12.0	L	1973	32.0	
1963	12.0	L	1974	68.0	
1964	18.0		1975	15.0	L
1965	12.0	L	1976	50.0	
1966	15.0	L	1977	15.0	L
1967	42.0		1978	72.0	
1969	30.0		1979	110.0	
1970	15.0	L	1980	62.0	

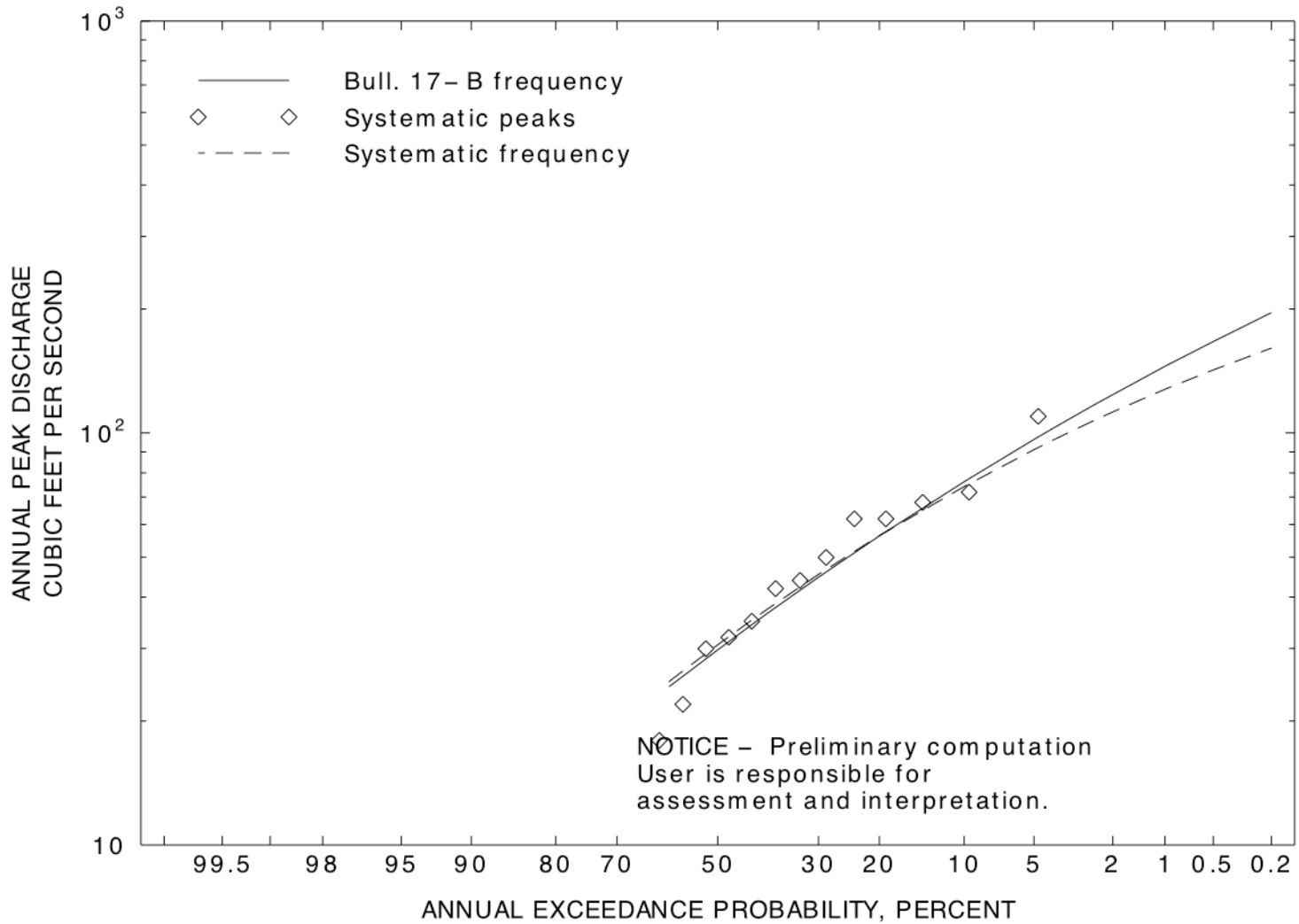
Explanation of peak discharge qualification codes

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
1979	110.0	0.0476	0.0476
1978	72.0	0.0952	0.0952
1974	68.0	0.1429	0.1429
1972	62.0	0.1905	0.1905
1980	62.0	0.2381	0.2381
1976	50.0	0.2857	0.2857
1961	44.0	0.3333	0.3333
1967	42.0	0.3810	0.3810
1960	35.0	0.4286	0.4286
1973	32.0	0.4762	0.4762
1969	30.0	0.5238	0.5238
1971	22.0	0.5714	0.5714
1964	18.0	0.6190	0.6190
1966	15.0	--	--
1970	15.0	--	--
1975	15.0	--	--
1977	15.0	--	--
1962	12.0	--	--
1963	12.0	--	--
1965	12.0	--	--



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