

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

Station - 05393620 SKANAWAN CREEK NEAR TOMAHAWK, WI  
 2002 MAR 13 09:03:01

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	11
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	11
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.202
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	248.4
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		24.1
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00005	0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

Station - 05393620 SKANAWAN CREEK NEAR TOMAHAWK, WI  
 2002 MAR 13 09:03:01

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	1.8884	0.2427	1.896
BULL.17B ESTIMATE	0.0	1.0000	1.8884	0.2427	0.263

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	21.0	43.1	15.5	9.2	32.2
0.9900	23.5	43.3	18.4	10.8	35.1
0.9500	32.2	44.6	28.6	17.4	45.3
0.9000	38.5	46.2	35.7	22.6	52.5
0.8000	48.0	49.8	46.2	31.1	63.9
0.5000	75.5	65.6	75.5	55.8	101.3
0.2000	122.7	109.8	128.6	92.3	188.5
0.1000	160.5	160.9	176.6	117.0	276.7
0.0400	216.0	265.3	260.1	149.4	430.5
0.0200	263.2	386.6	347.2	174.9	581.2
0.0100	315.8	562.5	465.2	201.7	768.2
0.0050	374.3	817.6	630.0	229.9	998.4
0.0020	462.0	1339.0	--	270.0	1383.0
0.6667	59.7	( 1.50-year flood )			
0.4292	83.3	( 2.33-year flood )			

Station - 05393620 SKANAWAN CREEK NEAR TOMAHAWK, WI  
2002 MAR 13 09:03:01

I N P U T   D A T A   L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1970	36.0		1976	69.0	
1971	70.0		1977	73.0	
1972	65.0		1978	55.0	
1973	70.0		1979	115.0	
1974	62.0		1981	335.0	
1975	78.0				

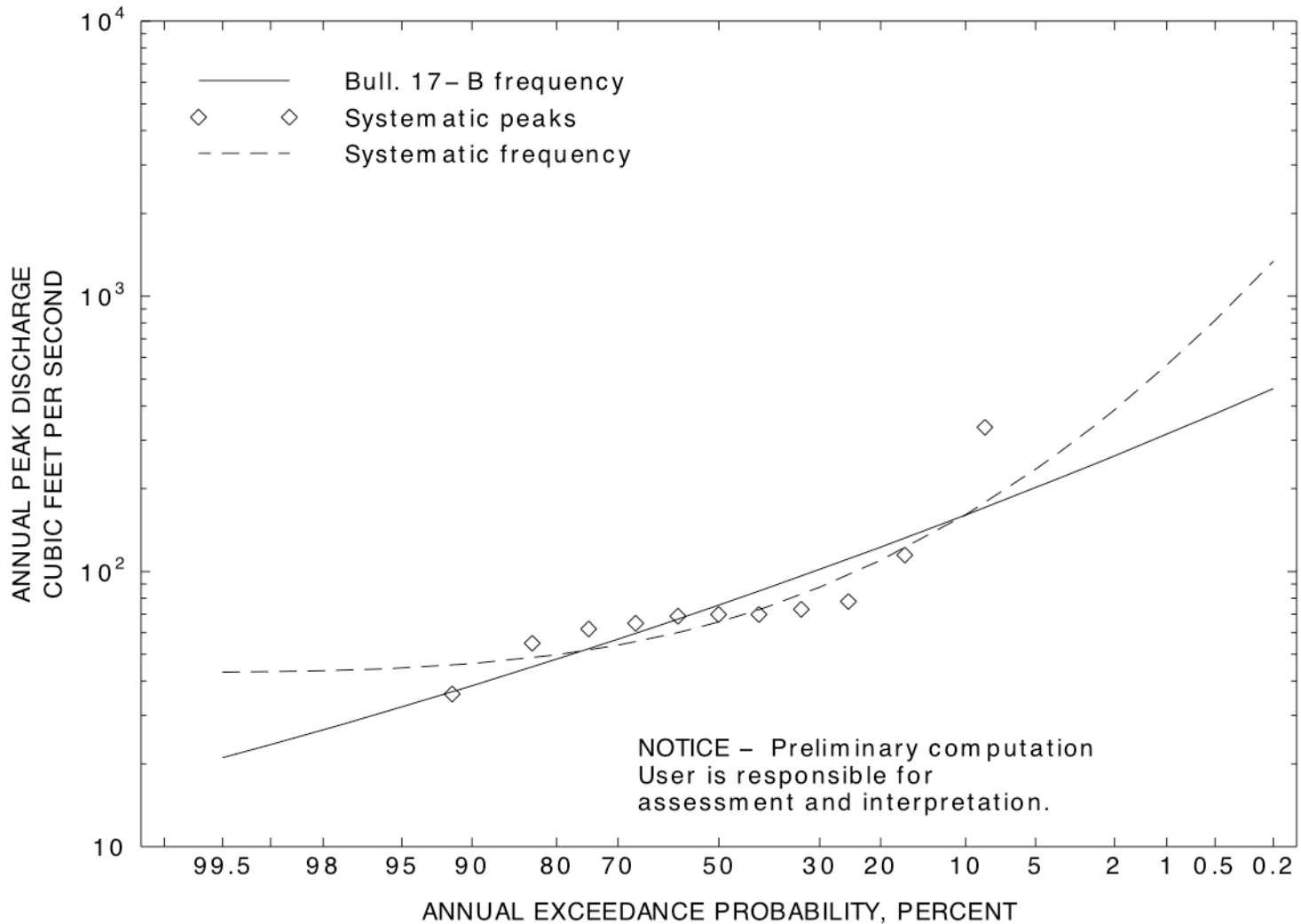
Explanation of peak discharge qualification codes

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

Station - 05393620 SKANAWAN CREEK NEAR TOMAHAWK, WI  
2002 MAR 13 09:03:01

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1981	335.0	0.0833	0.0833
1979	115.0	0.1667	0.1667
1975	78.0	0.2500	0.2500
1977	73.0	0.3333	0.3333
1971	70.0	0.4167	0.4167
1973	70.0	0.5000	0.5000
1976	69.0	0.5833	0.5833
1972	65.0	0.6667	0.6667
1974	62.0	0.7500	0.7500
1978	55.0	0.8333	0.8333
1970	36.0	0.9167	0.9167



Station - 05393620 SKANAWAN CREEK NEAR TOMAHAWK, WI  
2002 MAR 13 09:03:01