

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

Station - 05401050 TENMILE CREEK NEAR NEKOOSA, 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	=	25
Peaks not used in analysis	=	1
Systematic peaks in analysis	=	24
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.346
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. \*\*\*\*\*

**WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.		1
**WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS =	=	24
WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.		0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		72.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		487.1
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	0.0	1.0000	2.2725	0.1683	-0.209
BULL.17B ESTIMATE	0.0	1.0000	2.2725	0.1683	-0.268

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	62.7	64.0	54.4	42.8	80.0
0.9900	70.5	71.7	63.4	49.9	88.2
0.9500	96.3	96.8	91.9	74.3	114.8
0.9000	112.9	113.1	109.7	90.7	131.9
0.8000	136.0	135.8	134.1	113.9	156.0
0.5000	190.5	189.8	190.5	166.8	218.1
0.2000	260.5	260.3	263.6	226.9	311.7
0.1000	303.9	304.8	310.7	260.8	376.2
0.0400	355.6	358.6	369.7	299.2	458.0
0.0200	392.1	397.1	413.5	325.3	518.4
0.0100	427.1	434.4	457.6	349.8	578.2
0.0050	460.9	470.8	502.3	372.9	637.5
0.0020	504.1	517.9	562.9	402.0	715.5
0.6667	160.8	( 1.50-year flood )			
0.4292	204.2	( 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
1964	91.0		1977	87.0	
1965	274.0		1978	190.0	
1966	247.0		1979	-456.0	K
1967	275.0		1988	104.0	
1968	245.0		1989	176.0	
1969	326.0		1990	144.0	
1970	155.0		1991	197.0	
1971	210.0		1992	190.0	
1972	247.0		1993	249.0	
1973	411.0		1994	151.0	
1974	157.0		1999	154.0	
1975	247.0		2000	129.0	
1976	164.0				

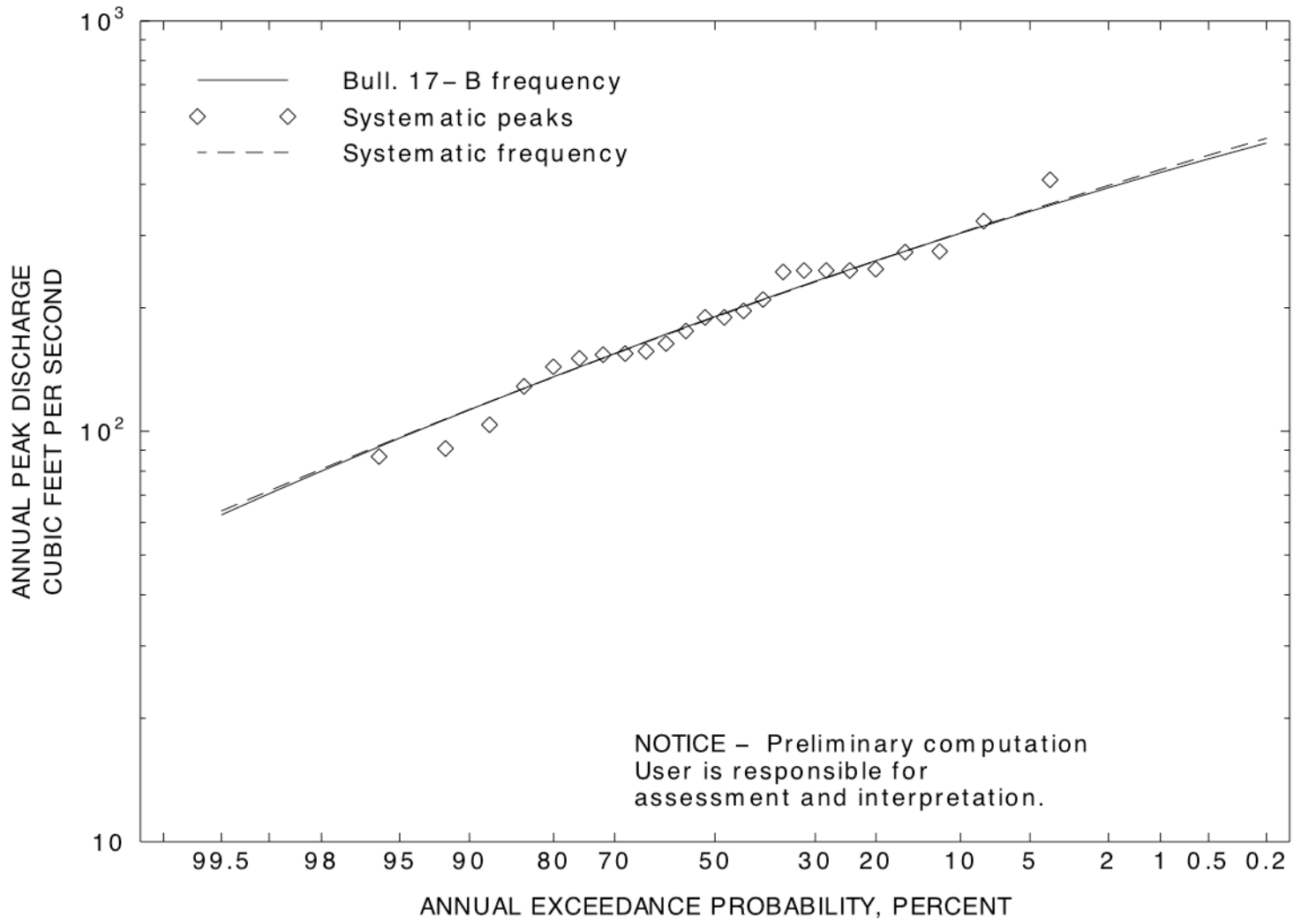
Explanation of peak discharge qualification codes

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	411.0	0.0400	0.0400
1969	326.0	0.0800	0.0800
1967	275.0	0.1200	0.1200
1965	274.0	0.1600	0.1600
1993	249.0	0.2000	0.2000
1966	247.0	0.2400	0.2400
1972	247.0	0.2800	0.2800
1975	247.0	0.3200	0.3200
1968	245.0	0.3600	0.3600
1971	210.0	0.4000	0.4000
1991	197.0	0.4400	0.4400
1978	190.0	0.4800	0.4800
1992	190.0	0.5200	0.5200
1989	176.0	0.5600	0.5600
1976	164.0	0.6000	0.6000
1974	157.0	0.6400	0.6400
1970	155.0	0.6800	0.6800
1999	154.0	0.7200	0.7200
1994	151.0	0.7600	0.7600
1990	144.0	0.8000	0.8000
2000	129.0	0.8400	0.8400
1988	104.0	0.8800	0.8800
1964	91.0	0.9200	0.9200
1977	87.0	0.9600	0.9600
1979	-456.0	--	--



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