

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

Station - 05409830 NORTH FORK NEDERLO CREEK NEAR GAYS MILLS, WI  
 2002 MAR 13 09:03:13

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	12
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	12
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.399
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	4.5
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		598.1
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00008	0.00200
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	1.7249	0.5038	-0.267
BULL.17B ESTIMATE	4.5	0.9167	1.7895	0.3835	0.136

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	--	2.0	--	--	--
0.9900	--	2.9	--	--	--
0.9500	--	7.2	--	--	--
0.9000	20.1	11.7	18.0	9.1	32.4
0.8000	29.1	20.4	27.5	15.3	45.0
0.5000	60.4	55.9	60.4	38.5	94.2
0.2000	128.7	142.6	137.2	83.5	243.9
0.1000	193.3	226.2	220.1	119.6	430.5
0.0400	301.0	362.2	385.3	172.9	817.6
0.0200	402.6	485.4	577.7	218.5	1256.0
0.0100	524.7	627.0	863.2	269.5	1864.0
0.0050	670.4	787.6	1296.0	326.4	2691.0
0.0020	905.5	1030.0	--	411.9	4231.0
0.6667	41.5	( 1.50-year flood )			
0.4292	70.6	( 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
1968	541.0		1974	110.0	
1969	78.0		1975	35.0	
1970	48.0		1976	38.0	
1971	4.0		1977	33.0	
1972	84.0		1978	136.0	
1973	35.0		1979	32.0	

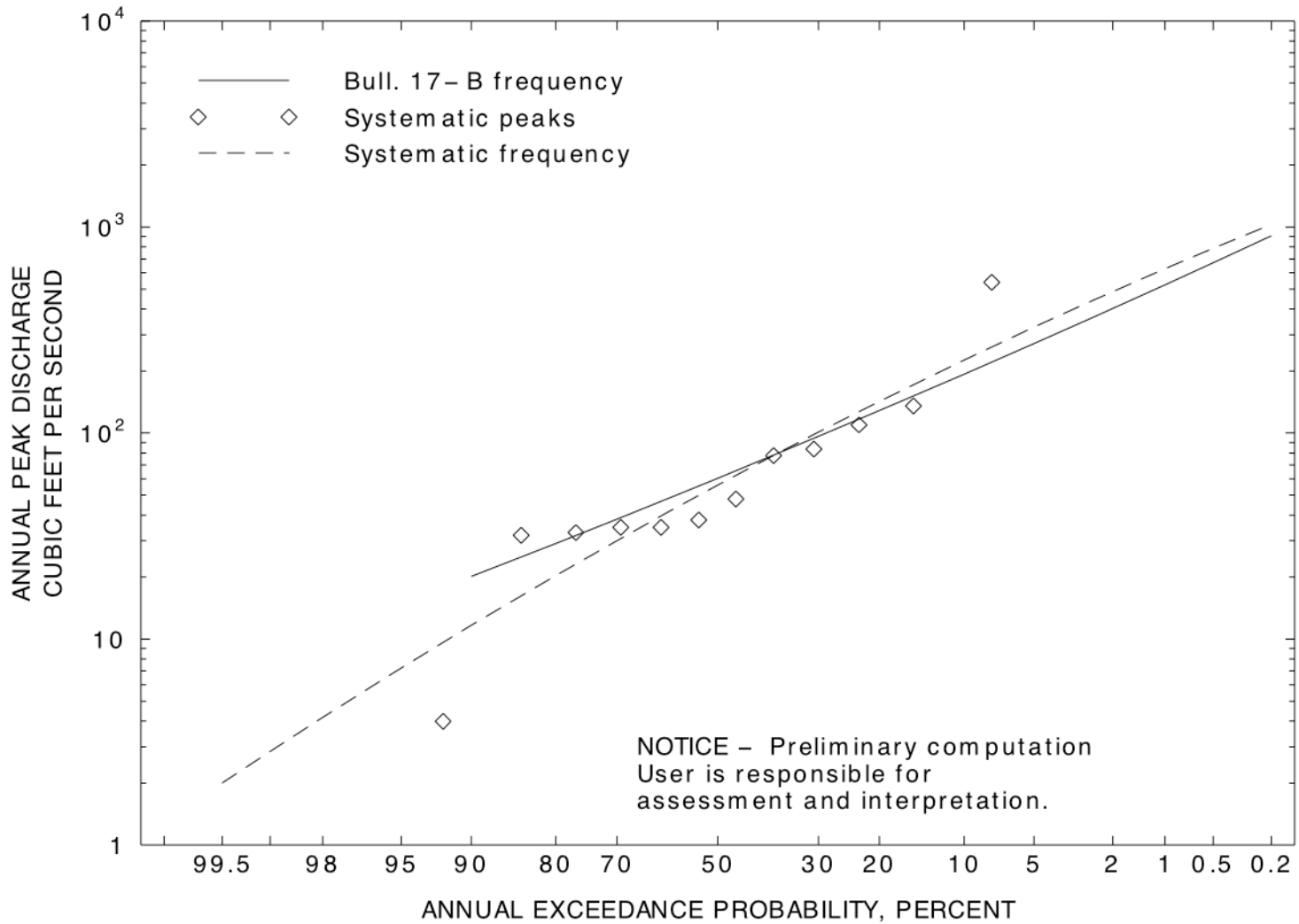
Explanation of peak discharge qualification codes

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
1968	541.0	0.0769	0.0769
1978	136.0	0.1538	0.1538
1974	110.0	0.2308	0.2308
1972	84.0	0.3077	0.3077
1969	78.0	0.3846	0.3846
1970	48.0	0.4615	0.4615
1976	38.0	0.5385	0.5385
1973	35.0	0.6154	0.6154
1975	35.0	0.6923	0.6923
1977	33.0	0.7692	0.7692
1979	32.0	0.8462	0.8462
1971	4.0	0.9231	0.9231



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