

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

Station - 05409890 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	=	13
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	13
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	6777.7
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		16.4

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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	2.5226	0.6016	0.972
BULL.17B ESTIMATE	0.0	1.0000	2.5226	0.6016	0.122

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	11.0	32.2	5.3	1.7	30.6
0.9900	15.0	35.9	8.5	2.6	39.2
0.9500	35.8	53.0	27.5	9.2	79.3
0.9000	57.5	69.3	48.8	17.9	118.3
0.8000	103.0	102.3	94.7	39.7	198.5
0.5000	323.9	267.0	323.9	165.0	631.4
0.2000	1059.0	955.6	1161.0	550.7	2735.0
0.1000	2000.0	2132.0	2407.0	967.2	6522.0
0.0400	3987.0	5591.0	5658.0	1723.0	17340.0
0.0200	6268.0	11080.0	10430.0	2486.0	33320.0
0.0100	9459.0	21390.0	19050.0	3452.0	60690.0
0.0050	13840.0	40440.0	34790.0	4660.0	106000.0
0.0020	22050.0	91650.0	78410.0	6707.0	210400.0
0.6667	179.5	(1.50-year flood)			
0.4292	414.1	(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	2600.0		1975	550.0	
1969	239.0		1976	434.0	
1970	175.0		1977	244.0	
1971	34.0		1978	8000.0	
1972	233.0		1979	99.0	
1973	140.0		1980	458.0	
1974	244.0				

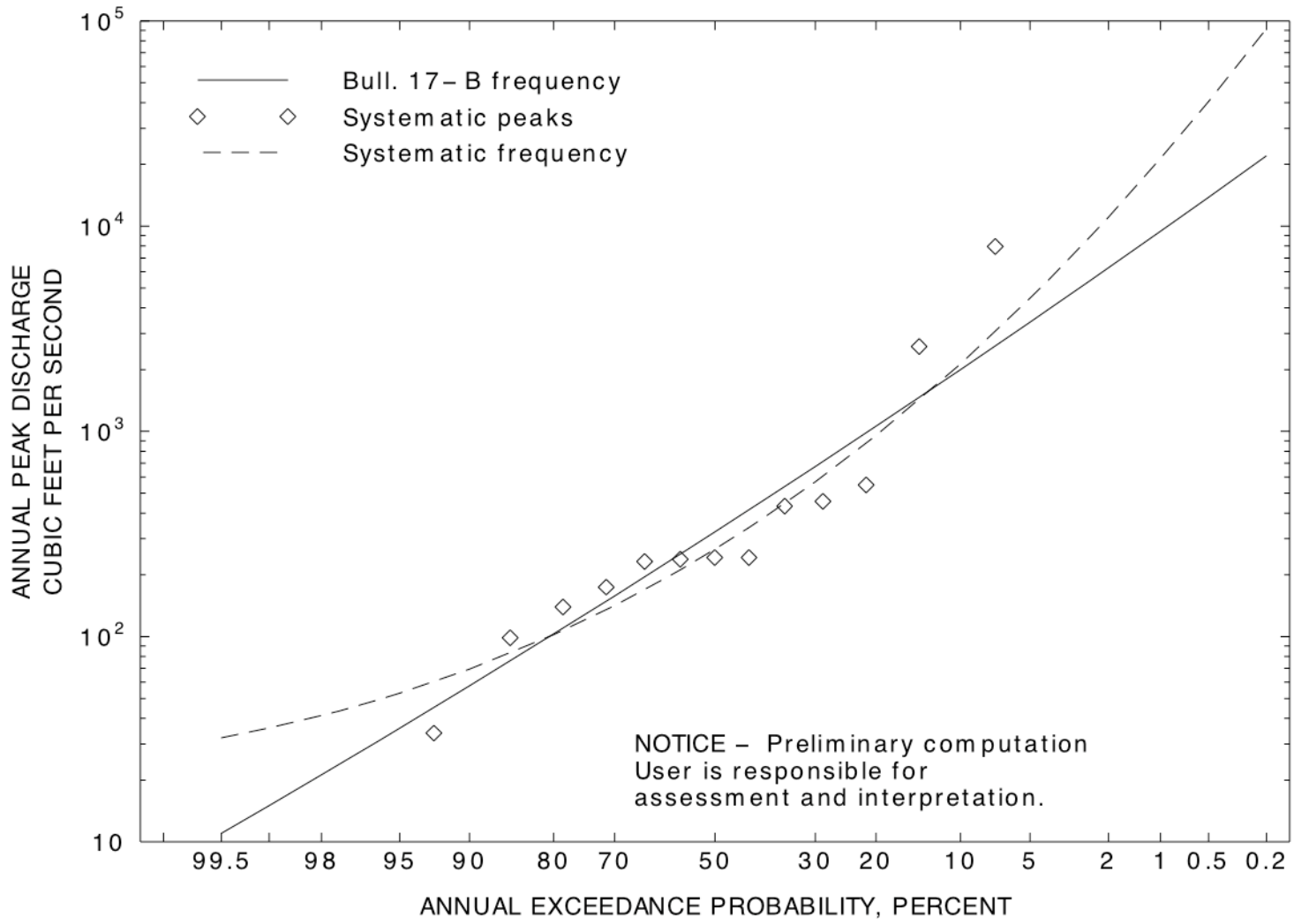
Explanation of peak discharge qualification codes

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
1978	8000.0	0.0714	0.0714
1968	2600.0	0.1429	0.1429
1975	550.0	0.2143	0.2143
1980	458.0	0.2857	0.2857
1976	434.0	0.3571	0.3571
1974	244.0	0.4286	0.4286
1977	244.0	0.5000	0.5000
1969	239.0	0.5714	0.5714
1972	233.0	0.6429	0.6429
1970	175.0	0.7143	0.7143
1973	140.0	0.7857	0.7857
1979	99.0	0.8571	0.8571
1971	34.0	0.9286	0.9286



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