

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

Station - 05400600 LITTLE PLOVER RIVER NEAR ARNOTT, 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	=	16
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	16
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.314
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
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	12.1
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	126.6

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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	1.5917	0.2240	-0.668
BULL.17B ESTIMATE	0.0	1.0000	1.5917	0.2240	-0.473

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	8.2	7.5	5.8	4.0	12.4
0.9900	9.9	9.2	7.6	5.2	14.3
0.9500	15.7	15.3	14.1	9.9	20.8
0.9000	19.8	19.7	18.5	13.5	25.3
0.8000	25.7	25.9	24.9	19.0	32.1
0.5000	40.7	41.4	40.7	32.7	51.0
0.2000	60.8	60.8	62.1	48.6	82.8
0.1000	73.3	72.1	76.3	57.5	105.8
0.0400	88.1	84.7	94.4	67.4	135.4
0.0200	98.5	93.0	107.9	74.0	157.4
0.0100	108.2	100.4	121.3	80.0	179.1
0.0050	117.4	107.1	135.0	85.5	200.4
0.0020	128.9	114.9	153.1	92.3	228.1
0.6667	32.4	(1.50-year flood)			
0.4292	44.6	(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
1960	55.0		1968	24.0	
1961	63.0		1969	53.0	
1962	66.0		1970	60.0	
1963	44.0		1971	18.0	
1964	14.0		1972	42.0	
1965	51.0		1973	72.0	
1966	29.0		1974	23.0	
1967	59.0		1975	25.0	

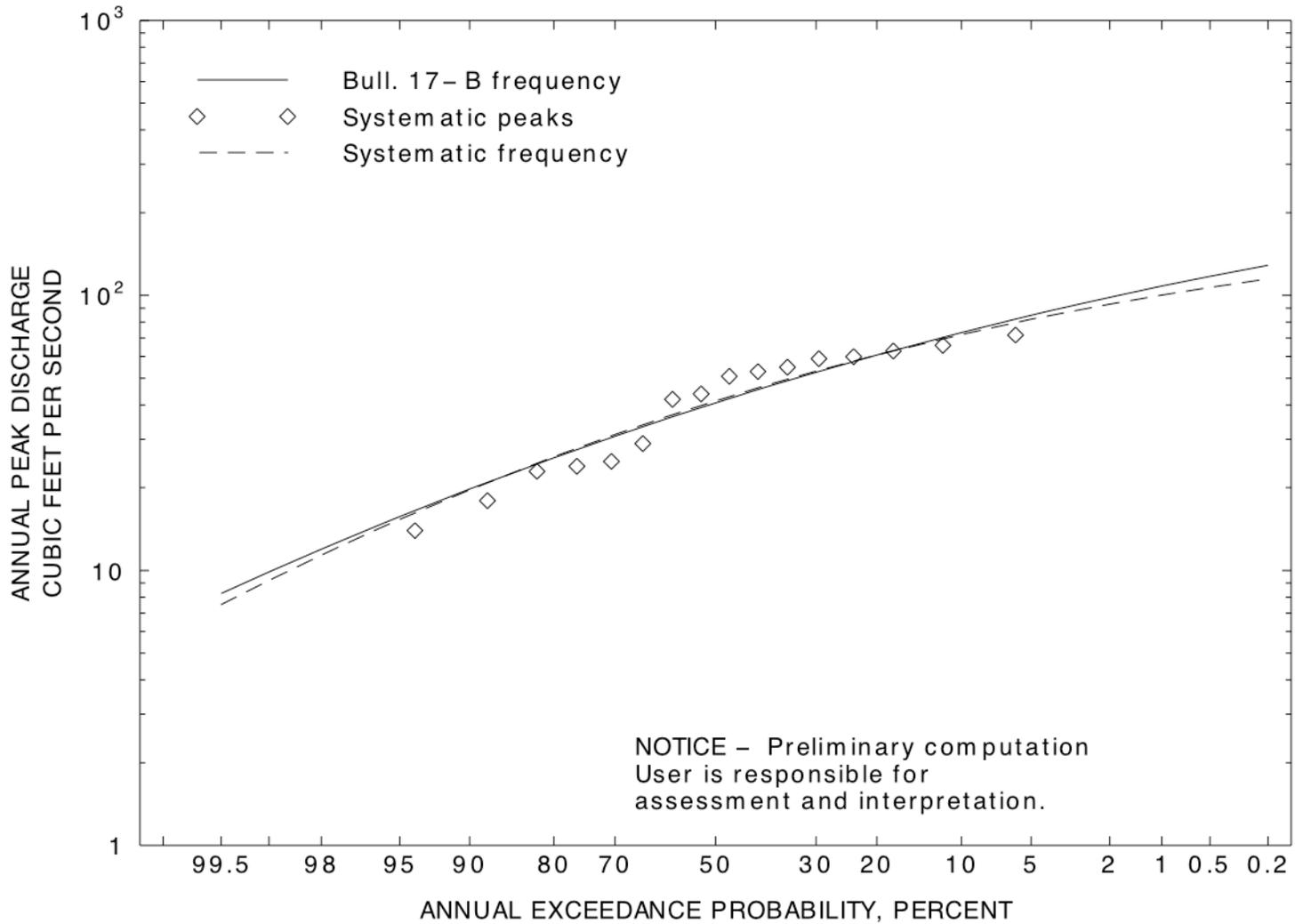
Explanation of peak discharge qualification codes

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
1973	72.0	0.0588	0.0588
1962	66.0	0.1176	0.1176
1961	63.0	0.1765	0.1765
1970	60.0	0.2353	0.2353
1967	59.0	0.2941	0.2941
1960	55.0	0.3529	0.3529
1969	53.0	0.4118	0.4118
1965	51.0	0.4706	0.4706
1963	44.0	0.5294	0.5294
1972	42.0	0.5882	0.5882
1966	29.0	0.6471	0.6471
1975	25.0	0.7059	0.7059
1968	24.0	0.7647	0.7647
1974	23.0	0.8235	0.8235
1971	18.0	0.8824	0.8824
1964	14.0	0.9412	0.9412



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