

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

Station - 05403000 YELLOW RIVER AT NECEDAH, WI
 2002 MAR 13 09:03:09

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	17
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	17
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.376
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	1068.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		19647.0

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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	3.7234	0.3009	-1.388
BULL.17B ESTIMATE	1068.4	0.9412	3.7511	0.2455	-0.646

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	--	375.6	--	--	--
0.9900	--	551.2	--	--	--
0.9500	--	1383.0	--	--	--
0.9000	2657.0	2095.0	2478.0	1772.0	3468.0
0.8000	3597.0	3242.0	3480.0	2619.0	4545.0
0.5000	5990.0	6176.0	5990.0	4754.0	7630.0
0.2000	9153.0	9421.0	9344.0	7223.0	12690.0
0.1000	11060.0	10900.0	11480.0	8564.0	16190.0
0.0400	13240.0	12180.0	14060.0	10000.0	20520.0
0.0200	14690.0	12810.0	15880.0	10920.0	23590.0
0.0100	16010.0	13250.0	17600.0	11740.0	26480.0
0.0050	17220.0	13570.0	19250.0	12470.0	29220.0
0.0020	18660.0	13850.0	21270.0	13320.0	32600.0
0.6667	4661.3	(1.50-year flood)			
0.4292	6623.1	(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
1941	6810.0		1950	4910.0	
1942	8400.0		1951	8620.0	
1943	9500.0		1952	12800.0	
1944	4500.0		1953	8020.0	
1945	9060.0		1954	4120.0	
1946	6300.0		1955	4600.0	
1947	2760.0		1956	8990.0	
1948	5040.0		1957	854.0	
1949	1620.0				

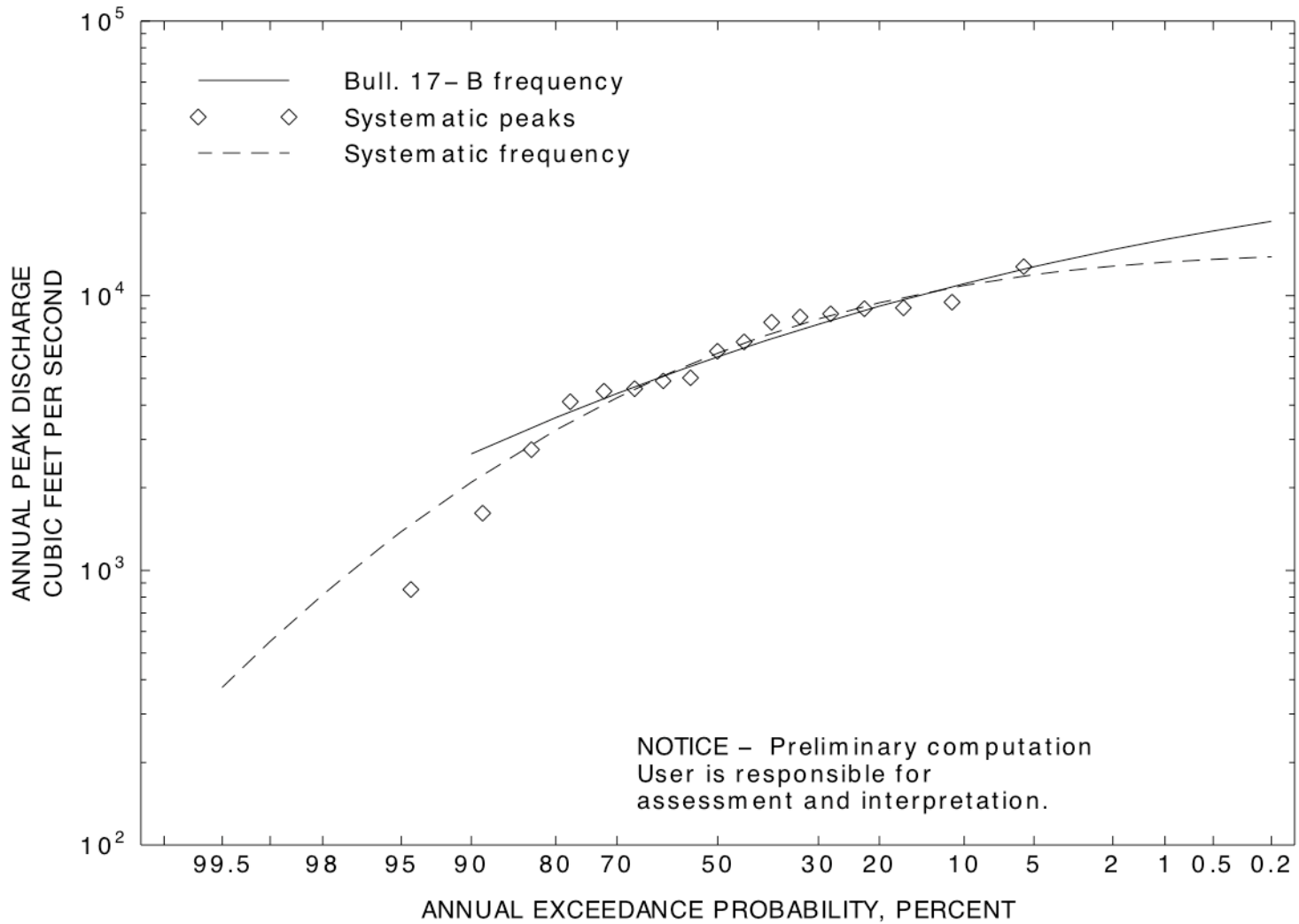
Explanation of peak discharge qualification codes

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
1952	12800.0	0.0556	0.0556
1943	9500.0	0.1111	0.1111
1945	9060.0	0.1667	0.1667
1956	8990.0	0.2222	0.2222
1951	8620.0	0.2778	0.2778
1942	8400.0	0.3333	0.3333
1953	8020.0	0.3889	0.3889
1941	6810.0	0.4444	0.4444
1946	6300.0	0.5000	0.5000
1948	5040.0	0.5556	0.5556
1950	4910.0	0.6111	0.6111
1955	4600.0	0.6667	0.6667
1944	4500.0	0.7222	0.7222
1954	4120.0	0.7778	0.7778
1947	2760.0	0.8333	0.8333
1949	1620.0	0.8889	0.8889
1957	854.0	0.9444	0.9444



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