

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

Station - 05332000 NAMEKAGON RIVER AT TREGO, WI
 2002 MAR 13 09:02:45

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	=	-0.259
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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1931.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	576.1

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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	3.0231	0.1208	0.662
BULL.17B ESTIMATE	0.0	1.0000	3.0231	0.1208	0.121

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	531.9	611.6	459.3	364.0	652.9
0.9900	566.2	633.4	505.2	398.9	686.2
0.9500	674.1	707.4	639.3	512.9	790.7
0.9000	741.4	757.6	717.3	586.4	856.9
0.8000	833.4	831.1	819.4	688.2	950.6
0.5000	1049.0	1023.0	1049.0	916.0	1199.0
0.2000	1330.0	1315.0	1355.0	1167.0	1609.0
0.1000	1511.0	1527.0	1569.0	1306.0	1916.0
0.0400	1736.0	1817.0	1862.0	1467.0	2331.0
0.0200	1901.0	2049.0	2105.0	1579.0	2658.0
0.0100	2064.0	2296.0	2375.0	1686.0	2997.0
0.0050	2228.0	2560.0	2680.0	1791.0	3351.0
0.0020	2446.0	2937.0	3154.0	1926.0	3846.0
0.6667	931.7	(1.50-year flood)			
0.4292	1101.9	(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
1915	1090.0		1922	1810.0	
1916	1330.0		1923	1090.0	
1917	873.0		1924	873.0	
1918	1020.0		1925	803.0	
1919	838.0		1926	733.0	
1920	1570.0		1927	1330.0	
1921	873.0				

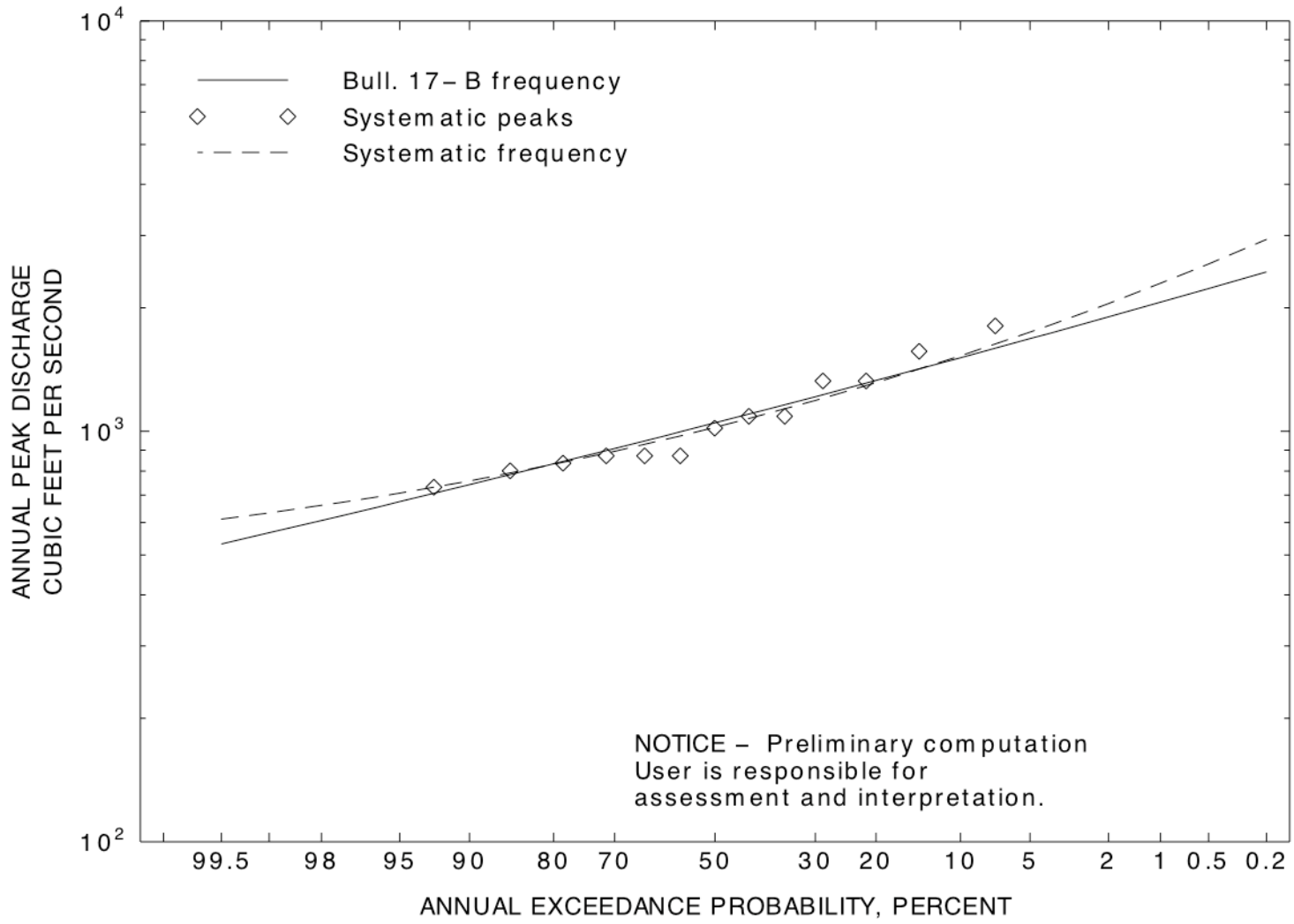
Explanation of peak discharge qualification codes

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
1922	1810.0	0.0714	0.0714
1920	1570.0	0.1429	0.1429
1916	1330.0	0.2143	0.2143
1927	1330.0	0.2857	0.2857
1915	1090.0	0.3571	0.3571
1923	1090.0	0.4286	0.4286
1918	1020.0	0.5000	0.5000
1917	873.0	0.5714	0.5714
1921	873.0	0.6429	0.6429
1924	873.0	0.7143	0.7143
1919	838.0	0.7857	0.7857
1925	803.0	0.8571	0.8571
1926	733.0	0.9286	0.9286



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