

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

Station - 05436000 MOUNT VERNON CREEK NEAR MOUNT VERNON, WI
 2002 MAR 13 09:03:25

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	=	-0.400
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.	54.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1395.4

Station - 05436000 MOUNT VERNON CREEK NEAR MOUNT VERNON, WI
 2002 MAR 13 09:03:25

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.4403	0.3091	0.140
BULL.17B ESTIMATE	0.0	1.0000	2.4403	0.3091	-0.135

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	40.3	48.4	27.8	16.4	67.4
0.9900	49.1	56.7	36.9	21.6	79.0
0.9500	83.2	88.0	73.4	44.8	121.9
0.9000	109.6	112.0	101.6	64.9	154.2
0.8000	152.2	150.8	146.5	99.7	206.5
0.5000	280.0	271.1	280.0	206.3	381.2
0.2000	503.8	499.0	521.5	371.0	771.1
0.1000	678.7	693.0	725.7	484.0	1138.0
0.0400	926.4	990.8	1046.0	630.9	1730.0
0.0200	1129.0	1253.0	1338.0	743.2	2266.0
0.0100	1344.0	1552.0	1685.0	857.7	2886.0
0.0050	1575.0	1893.0	2101.0	975.2	3594.0
0.0020	1903.0	2413.0	2782.0	1136.0	4679.0
0.6667	205.6	(1.50-year flood)			
0.4292	318.0	(2.33-year flood)			

Station - 05436000 MOUNT VERNON CREEK NEAR MOUNT VERNON, WI
2002 MAR 13 09:03:25

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1955	471.0		1963	263.0	
1956	230.0		1964	71.0	
1957	164.0		1965	306.0	
1958	528.0		1976	328.0	
1959	940.0		1977	196.0	
1960	900.0		1978	184.0	
1961	522.0		1979	138.0	
1962	128.0		1980	224.0	

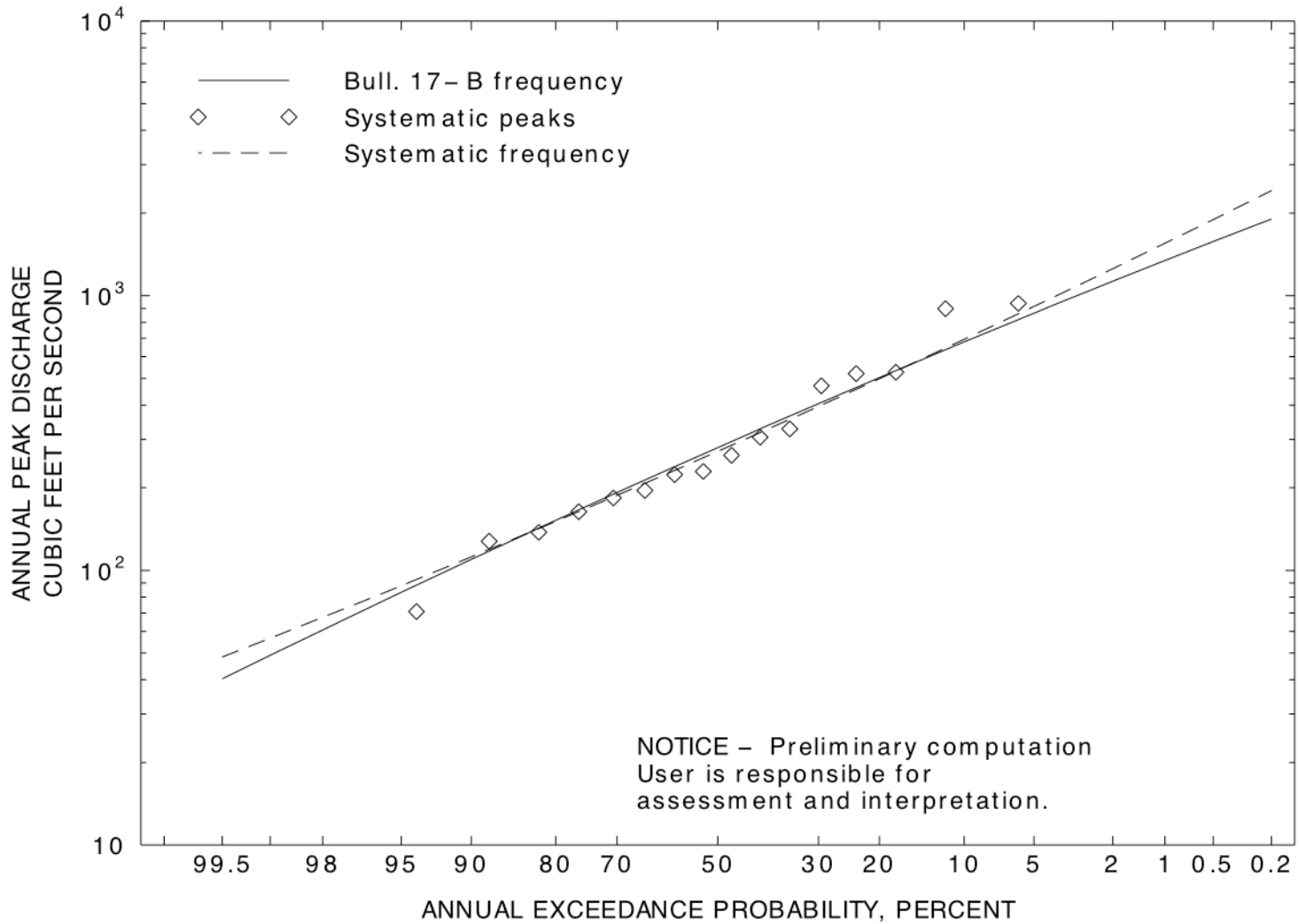
Explanation of peak discharge qualification codes

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

Station - 05436000 MOUNT VERNON CREEK NEAR MOUNT VERNON, WI
2002 MAR 13 09:03:25

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1959	940.0	0.0588	0.0588
1960	900.0	0.1176	0.1176
1958	528.0	0.1765	0.1765
1961	522.0	0.2353	0.2353
1955	471.0	0.2941	0.2941
1976	328.0	0.3529	0.3529
1965	306.0	0.4118	0.4118
1963	263.0	0.4706	0.4706
1956	230.0	0.5294	0.5294
1980	224.0	0.5882	0.5882
1977	196.0	0.6471	0.6471
1978	184.0	0.7059	0.7059
1957	164.0	0.7647	0.7647
1979	138.0	0.8235	0.8235
1962	128.0	0.8824	0.8824
1964	71.0	0.9412	0.9412



NOTICE - Preliminary computation
 User is responsible for
 assessment and interpretation.

Station - 05436000 MOUNT VERNON CREEK NEAR MOUNT VERNON, WI
 2002 MAR 13 09:03:25