

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

Station - 05399000 BIG EAU PLEINE RIVER NEAR COLBY, WI
 2002 MAR 13 09:03:04

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	=	-0.287
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.	625.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	10816.9

Station - 05399000 BIG EAU PLEINE RIVER NEAR COLBY, WI
 2002 MAR 13 09:03:04

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.4153	0.2845	0.057
BULL.17B ESTIMATE	0.0	1.0000	3.4153	0.2845	-0.132

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	443.7	498.6	285.7	168.9	743.4
0.9900	531.9	582.6	381.0	220.3	857.7
0.9500	864.6	895.3	747.7	445.0	1269.0
0.9000	1114.0	1128.0	1020.0	636.7	1571.0
0.8000	1506.0	1496.0	1442.0	961.8	2052.0
0.5000	2640.0	2586.0	2640.0	1925.0	3632.0
0.2000	4533.0	4507.0	4717.0	3324.0	7118.0
0.1000	5965.0	6048.0	6445.0	4242.0	10360.0
0.0400	7947.0	8298.0	9152.0	5399.0	15540.0
0.0200	9533.0	10190.0	11630.0	6264.0	20190.0
0.0100	11200.0	12280.0	14620.0	7132.0	25510.0
0.0050	12970.0	14570.0	18240.0	8010.0	31570.0
0.0020	15440.0	17950.0	24290.0	9192.0	40790.0
0.6667	1985.8	(1.50-year flood)			
0.4292	2967.1	(2.33-year flood)			

Station - 05399000 BIG EAU PLEINE RIVER NEAR COLBY, WI
2002 MAR 13 09:03:04

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

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1942	3580.0		1949	1150.0	
1943	9370.0		1950	1900.0	
1944	843.0		1951	3300.0	
1945	4660.0		1952	1500.0	
1946	3880.0		1953	3300.0	
1947	2310.0		1954	3880.0	
1948	1530.0				

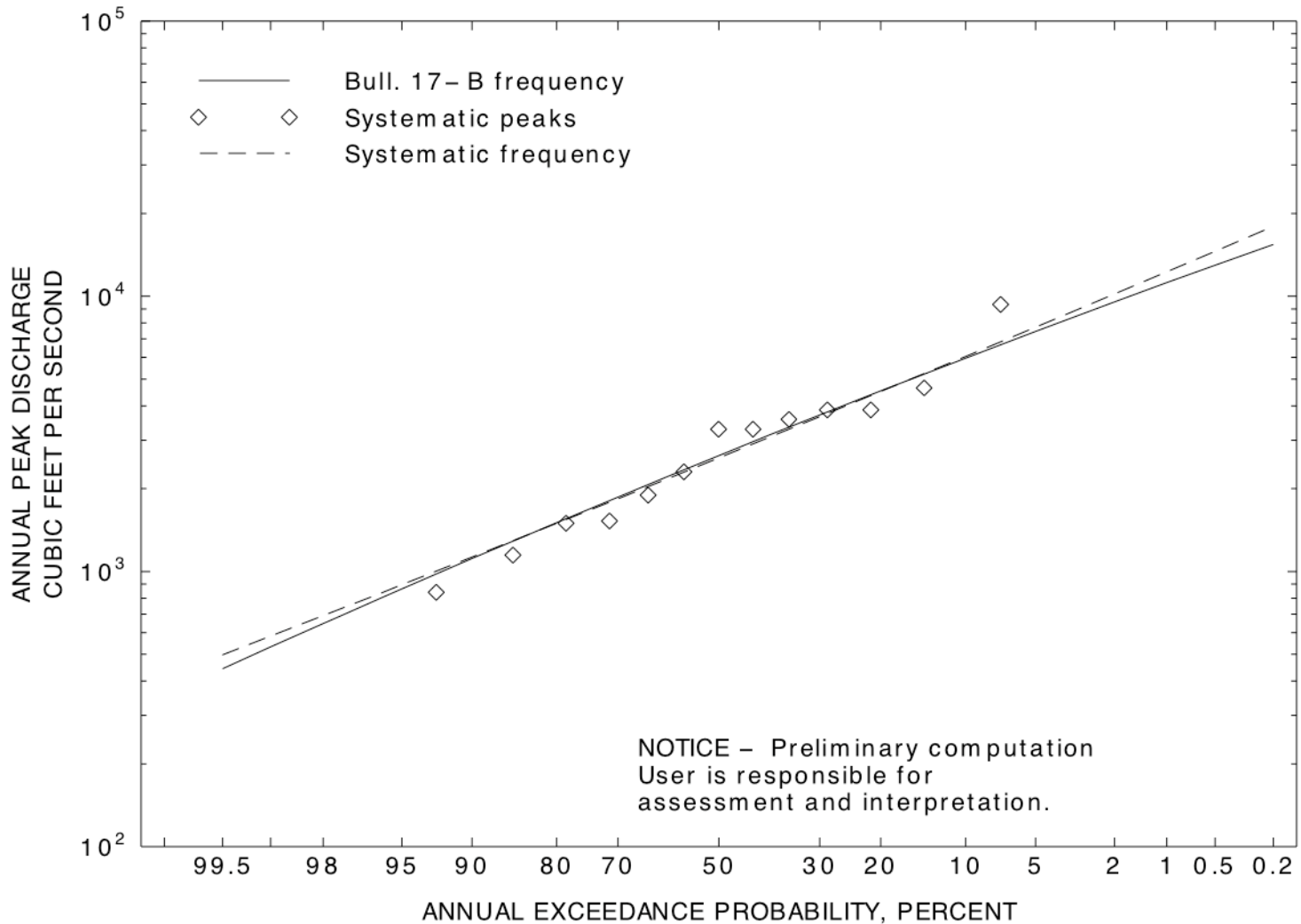
Explanation of peak discharge qualification codes

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 - 05399000 BIG EAU PLEINE RIVER NEAR COLBY, WI
2002 MAR 13 09:03:04

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1943	9370.0	0.0714	0.0714
1945	4660.0	0.1429	0.1429
1946	3880.0	0.2143	0.2143
1954	3880.0	0.2857	0.2857
1942	3580.0	0.3571	0.3571
1951	3300.0	0.4286	0.4286
1953	3300.0	0.5000	0.5000
1947	2310.0	0.5714	0.5714
1950	1900.0	0.6429	0.6429
1948	1530.0	0.7143	0.7143
1952	1500.0	0.7857	0.7857
1949	1150.0	0.8571	0.8571
1944	843.0	0.9286	0.9286



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

Station - 05399000 BIG EAU PLEINE RIVER NEAR COLBY, WI
 2002 MAR 13 09:03:04