

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

Station - 05430100 BADFISH CREEK NEAR STOUGHTON, WI  
 2002 MAR 13 09:03:20

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	10
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	10
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	86.1
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1146.5
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00003	0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

Station - 05430100 BADFISH CREEK NEAR STOUGHTON, WI  
 2002 MAR 13 09:03:20

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.5935	0.3234	-1.584
BULL.17B ESTIMATE	86.1	0.9000	2.6465	0.2133	-0.494

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	--	20.3	--	--	--
0.9900	--	31.7	--	--	--
0.9500	--	91.1	--	--	--
0.9000	--	145.7	--	--	--
0.8000	297.9	236.8	283.7	199.4	386.7
0.5000	461.3	473.2	461.3	351.9	613.4
0.2000	674.8	721.4	698.2	518.9	1019.0
0.1000	805.6	824.6	858.2	607.0	1321.0
0.0400	958.0	904.4	1068.0	701.6	1719.0
0.0200	1063.0	939.9	1229.0	763.0	2017.0
0.0100	1160.0	962.7	1395.0	818.2	2312.0
0.0050	1252.0	977.3	1566.0	868.6	2604.0
0.0020	1365.0	989.0	--	929.3	2985.0
0.6667	371.3	( 1.50-year flood )			
0.4292	503.6	( 2.33-year flood )			

Station - 05430100 BADFISH CREEK NEAR STOUGHTON, WI  
2002 MAR 13 09:03:20

I N P U T   D A T A   L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1957	68.0		1962	635.0	
1958	252.0		1963	366.0	
1959	682.0		1964	238.0	
1960	871.0		1965	545.0	
1961	504.0		1966	557.0	

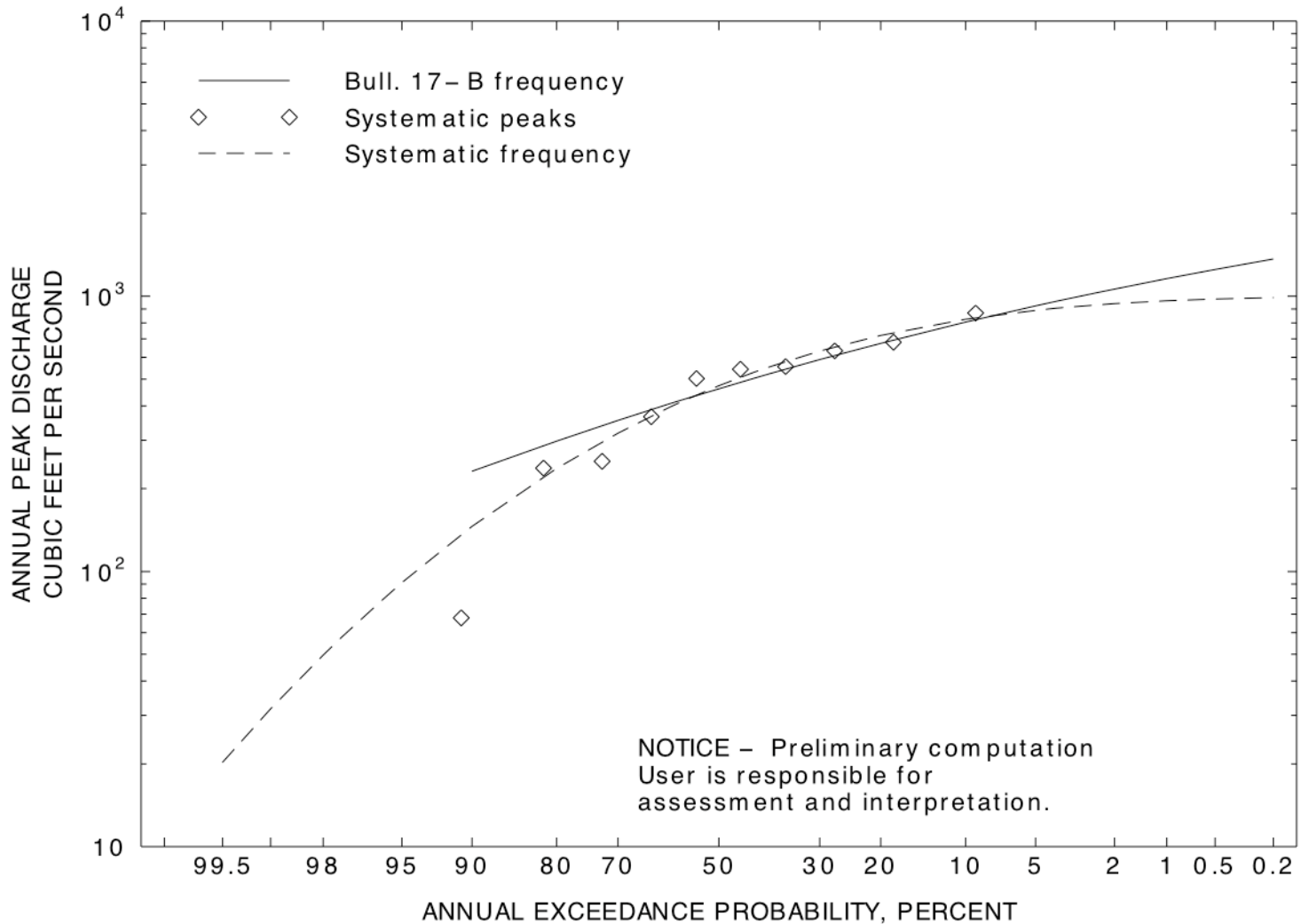
Explanation of peak discharge qualification codes

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 - 05430100 BADFISH CREEK NEAR STOUGHTON, WI  
2002 MAR 13 09:03:20

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1960	871.0	0.0909	0.0909
1959	682.0	0.1818	0.1818
1962	635.0	0.2727	0.2727
1966	557.0	0.3636	0.3636
1965	545.0	0.4545	0.4545
1961	504.0	0.5455	0.5455
1963	366.0	0.6364	0.6364
1958	252.0	0.7273	0.7273
1964	238.0	0.8182	0.8182
1957	68.0	0.9091	0.9091



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

Station - 05430100 BADFISH CREEK NEAR STOUGHTON, WI  
 2002 MAR 13 09:03:20