

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

Station - 05430150 BADFISH CREEK NEAR COOKSVILLE, 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	=	23
Peaks not used in analysis	=	10
Systematic peaks in analysis	=	13
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. *****

**WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.		10
**WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS =	=	13
WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.		0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		307.9
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		1175.0
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

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 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	2.7792	0.1337	-0.531
BULL.17B ESTIMATE	0.0	1.0000	2.7792	0.1337	-0.455

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	238.8	233.7	182.8	145.2	310.6
0.9900	265.6	261.3	217.9	169.8	337.5
0.9500	349.4	347.5	322.4	253.0	420.4
0.9000	400.5	400.0	382.0	307.0	471.3
0.8000	468.4	469.3	457.9	380.3	541.4
0.5000	615.6	618.0	615.6	531.7	716.9
0.2000	782.8	783.0	795.7	676.5	968.6
0.1000	876.5	873.3	903.4	748.0	1130.0
0.0400	979.7	970.9	1032.0	822.1	1322.0
0.0200	1048.0	1034.0	1124.0	868.9	1455.0
0.0100	1109.0	1090.0	1212.0	910.3	1580.0
0.0050	1166.0	1141.0	1300.0	947.5	1698.0
0.0020	1234.0	1201.0	1413.0	991.6	1845.0
0.6667	537.4	(1.50-year flood)			
0.4292	650.4	(2.33-year flood)			

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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
1978	796.0		1990	626.0	
1979	469.0		1991	-704.0	K
1980	588.0		1992	-366.0	K
1981	870.0		1993	-734.0	K
1982	839.0		1994	-1210.0	K
1983	440.0		1995	-376.0	K
1984	701.0		1996	-2210.0	K
1985	710.0		1997	-1130.0	K
1986	460.0		1998	-699.0	K
1987	324.0		1999	-1610.0	K
1988	494.0		2000	-1430.0	K
1989	833.0				

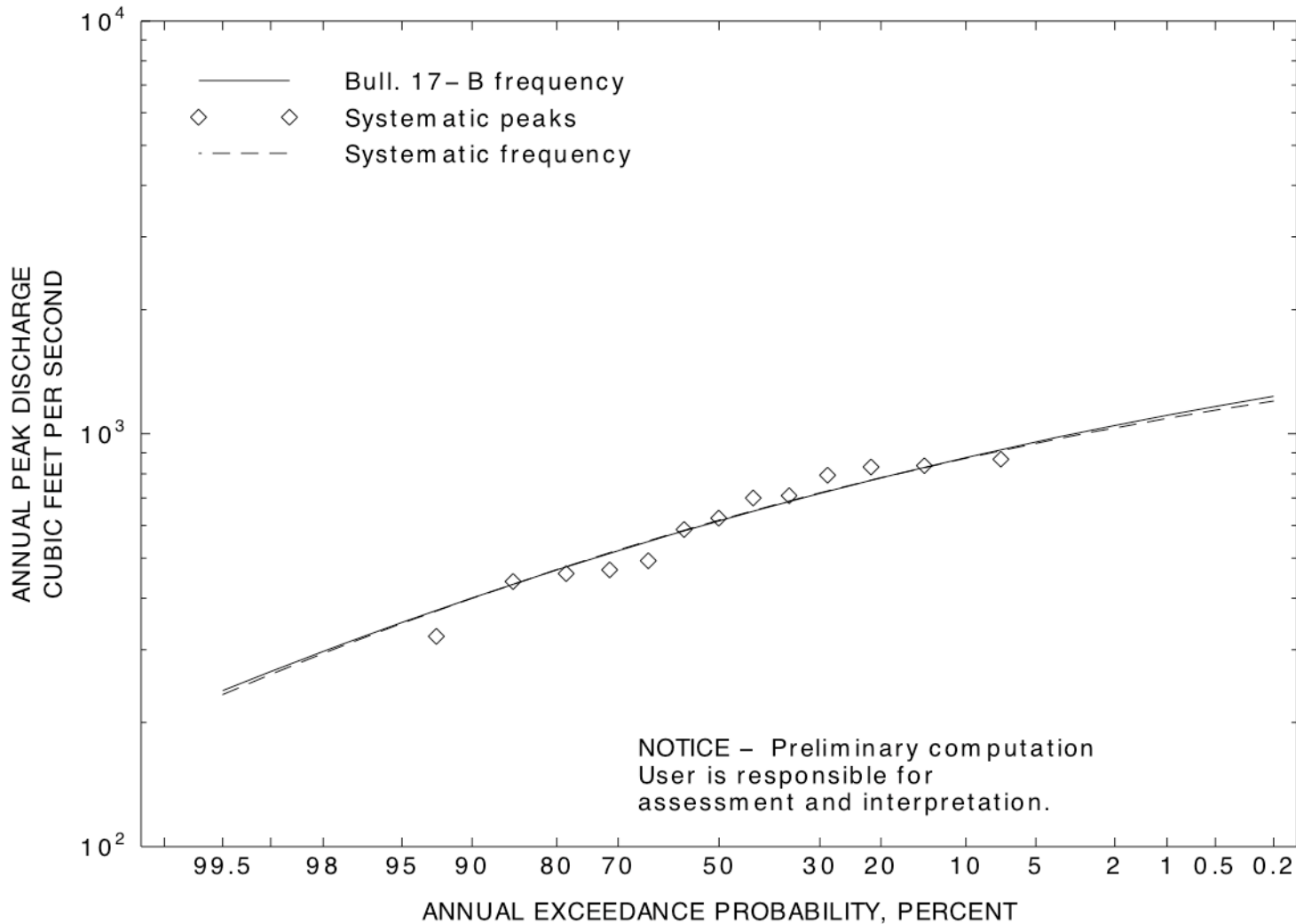
Explanation of peak discharge qualification codes

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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2002 MAR 13 09:03:20

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1981	870.0	0.0714	0.0714
1982	839.0	0.1429	0.1429
1989	833.0	0.2143	0.2143
1978	796.0	0.2857	0.2857
1985	710.0	0.3571	0.3571
1984	701.0	0.4286	0.4286
1990	626.0	0.5000	0.5000
1980	588.0	0.5714	0.5714
1988	494.0	0.6429	0.6429
1979	469.0	0.7143	0.7143
1986	460.0	0.7857	0.7857
1983	440.0	0.8571	0.8571
1987	324.0	0.9286	0.9286
1992	-366.0	--	--
1995	-376.0	--	--
1998	-699.0	--	--
1991	-704.0	--	--
1993	-734.0	--	--
1997	-1130.0	--	--
1994	-1210.0	--	--
2000	-1430.0	--	--
1999	-1610.0	--	--
1996	-2210.0	--	--



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