

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

Station - 05406491 GARFOOT CREEK NEAR CROSS PLAINS, WI  
 2002 MAR 13 09:03:11

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	11
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	11
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.397
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
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	201.6
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		37.7
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00005	0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

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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	1.9405	0.1744	1.107
BULL.17B ESTIMATE	0.0	1.0000	1.9405	0.1744	0.102

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	32.2	46.3	24.7	17.1	44.3
0.9900	35.3	47.5	28.7	19.7	47.6
0.9500	45.6	52.2	41.5	29.0	58.4
0.9000	52.4	55.9	49.4	35.6	65.6
0.8000	62.1	62.0	60.3	45.5	76.2
0.5000	86.6	81.1	86.6	69.8	107.2
0.2000	122.0	117.6	125.9	99.4	166.3
0.1000	146.5	149.4	156.2	116.8	216.1
0.0400	178.6	200.0	201.7	137.6	290.0
0.0200	203.3	246.5	242.9	152.6	352.8
0.0100	228.6	301.7	292.3	167.4	422.3
0.0050	254.9	367.3	352.8	182.1	499.1
0.0020	291.0	473.6	--	201.6	612.7
0.6667	73.0	( 1.50-year flood )			
0.4292	93.0	( 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
1985	128.0		1994	63.0	
1986	80.0		1995	57.0	
1990	84.0		1996	110.0	
1991	60.0		1997	71.0	
1992	65.0		1998	212.0	
1993	111.0				

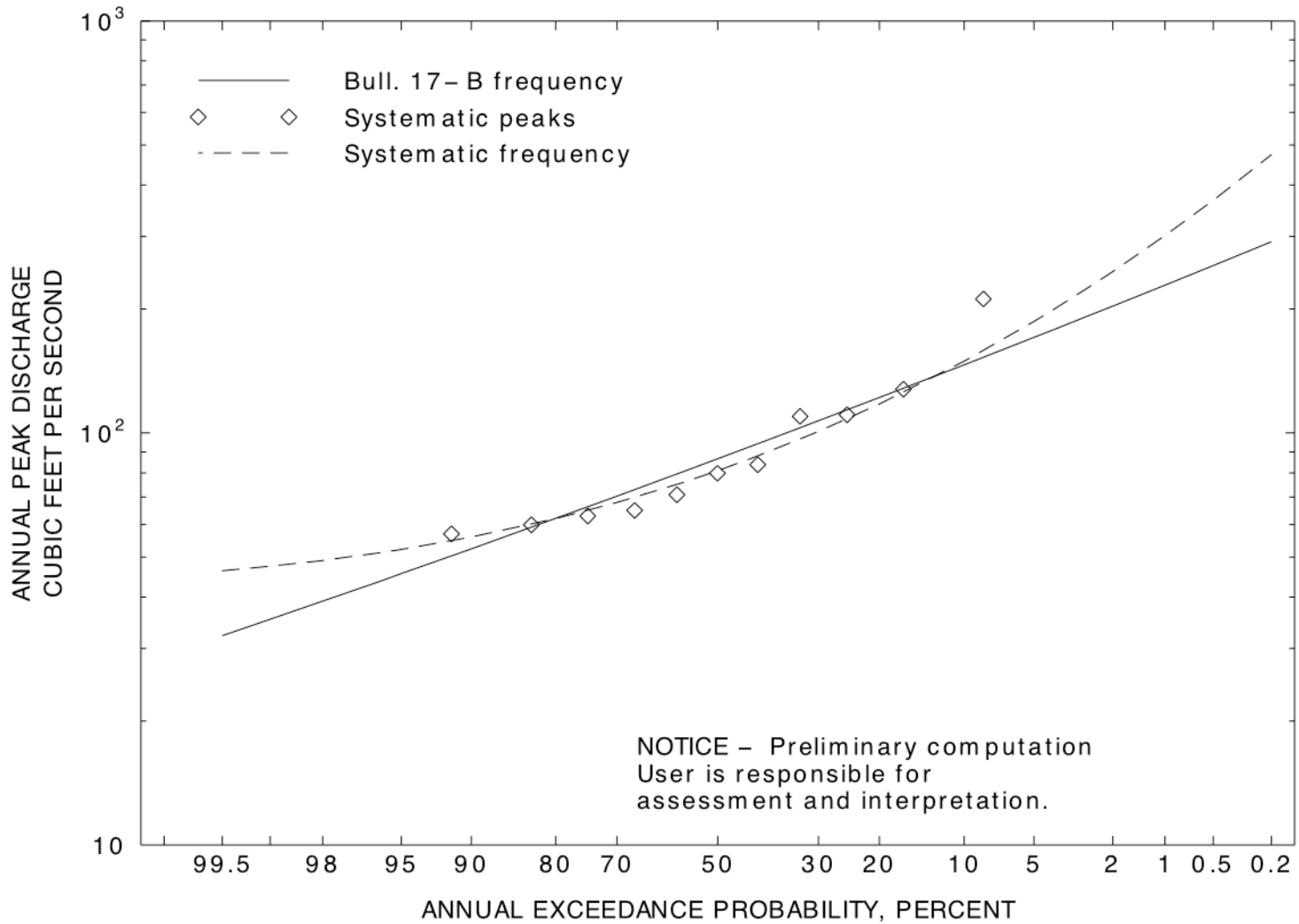
Explanation of peak discharge qualification codes

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
1998	212.0	0.0833	0.0833
1985	128.0	0.1667	0.1667
1993	111.0	0.2500	0.2500
1996	110.0	0.3333	0.3333
1990	84.0	0.4167	0.4167
1986	80.0	0.5000	0.5000
1997	71.0	0.5833	0.5833
1992	65.0	0.6667	0.6667
1994	63.0	0.7500	0.7500
1991	60.0	0.8333	0.8333
1995	57.0	0.9167	0.9167



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