

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

Station - W4073468 GREEN LAKE INLET AT CT HIGHWAY A NEAR GREEN LAKE,
 2002 MAR 13 09:02:33

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	14
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	14
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.366
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	643.2
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		79.4

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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	2.3540	0.2053	1.457
BULL.17B ESTIMATE	0.0	1.0000	2.3540	0.2053	0.193

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	72.8	121.6	59.0	40.2	101.5
0.9900	80.5	123.2	68.2	46.3	109.9
0.9500	106.6	131.4	98.5	69.0	138.5
0.9000	124.6	139.0	118.5	85.5	158.0
0.8000	151.2	152.7	147.3	110.9	187.7
0.5000	222.5	202.3	222.5	178.3	276.7
0.2000	334.6	314.1	344.7	269.7	454.8
0.1000	417.8	424.7	443.7	328.5	612.9
0.0400	532.9	620.8	597.4	403.0	860.2
0.0200	625.9	820.1	739.8	459.4	1081.0
0.0100	725.2	1078.0	913.4	517.0	1334.0
0.0050	831.5	1411.0	1128.0	576.3	1624.0
0.0020	984.1	2004.0	1500.0	657.9	2072.0
0.6667	182.2	(1.50-year flood)			
0.4292	242.0	(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
1987	164.0		1994	260.0	
1988	163.0		1995	144.0	
1989	705.0		1996	230.0	
1990	226.0		1997	246.0	
1991	177.0		1998	242.0	
1992	139.0		1999	213.0	
1993	523.0		2000	151.0	

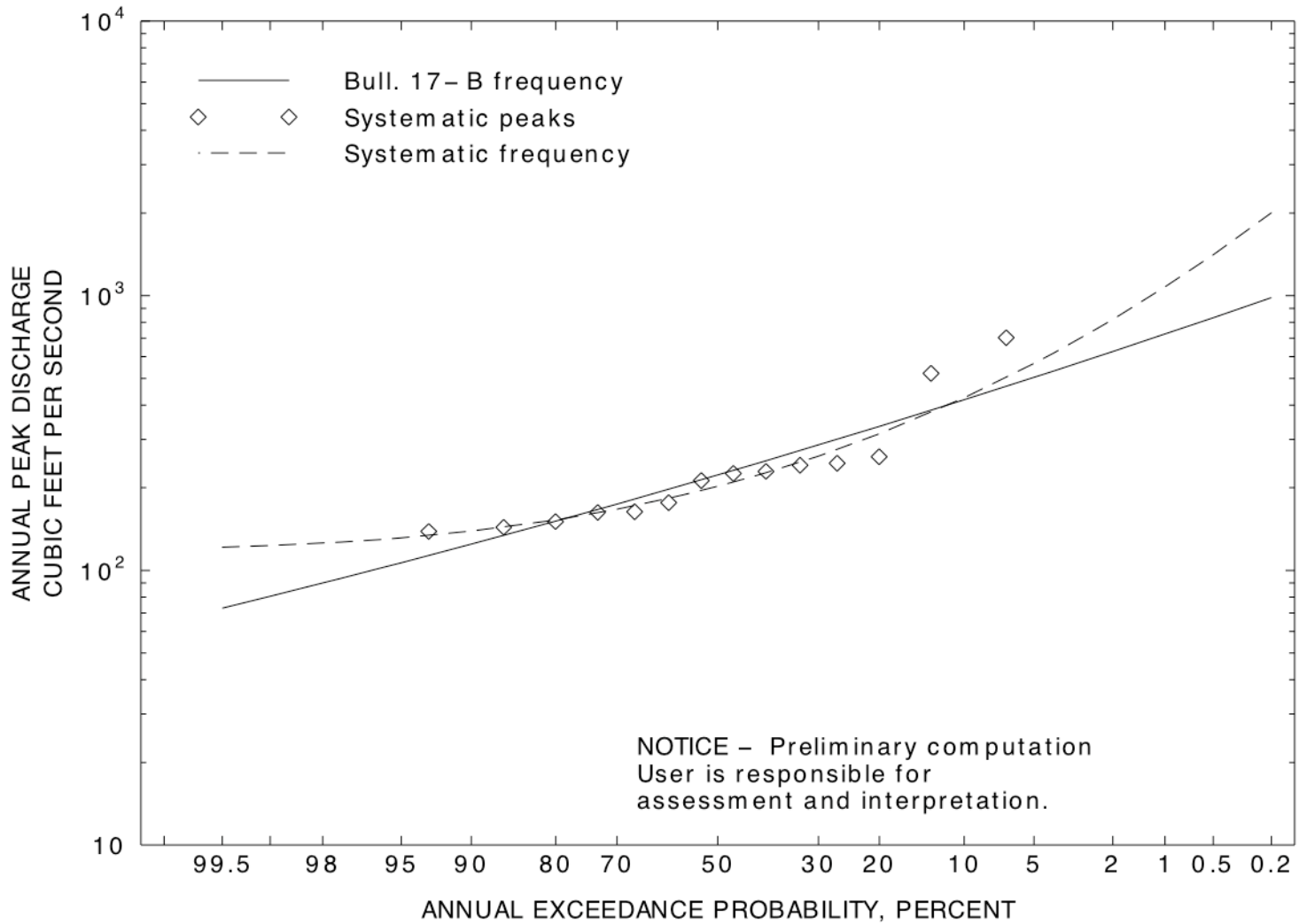
Explanation of peak discharge qualification codes

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
1989	705.0	0.0667	0.0667
1993	523.0	0.1333	0.1333
1994	260.0	0.2000	0.2000
1997	246.0	0.2667	0.2667
1998	242.0	0.3333	0.3333
1996	230.0	0.4000	0.4000
1990	226.0	0.4667	0.4667
1999	213.0	0.5333	0.5333
1991	177.0	0.6000	0.6000
1987	164.0	0.6667	0.6667
1988	163.0	0.7333	0.7333
2000	151.0	0.8000	0.8000
1995	144.0	0.8667	0.8667
1992	139.0	0.9333	0.9333



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