

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

Station - 05413449 RATTLESNAKE CREEK NEAR NORTH ANDOVER, WI
 2002 MAR 13 09:03:13

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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		7342.7
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		113.2
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00003	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	2.9599	0.4450	1.050
BULL.17B ESTIMATE	0.0	1.0000	2.9599	0.4450	0.074

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	69.9	173.1	31.7	12.0	164.0
0.9900	88.9	185.8	48.4	17.6	197.4
0.9500	172.7	241.0	131.5	49.5	334.2
0.9000	247.3	290.2	209.2	85.6	450.2
0.8000	383.6	381.7	352.5	163.4	663.0
0.5000	900.4	764.5	900.4	503.8	1602.0
0.2000	2151.0	1969.0	2351.0	1245.0	5036.0
0.1000	3416.0	3602.0	4089.0	1872.0	9951.0
0.0400	5624.0	7483.0	7922.0	2821.0	21350.0
0.0200	7784.0	12610.0	12850.0	3650.0	35460.0
0.0100	10450.0	20860.0	20880.0	4589.0	56410.0
0.0050	13700.0	34020.0	34310.0	5651.0	86710.0
0.0020	19070.0	63890.0	--	7264.0	146900.0
0.6667	580.9	(1.50-year flood)			
0.4292	1080.2	(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	1130.0		1992	725.0	
1988	445.0		1993	3640.0	
1989	825.0		1994	1150.0	
1990	384.0		1995	391.0	
1991	7000.0		1996	300.0	

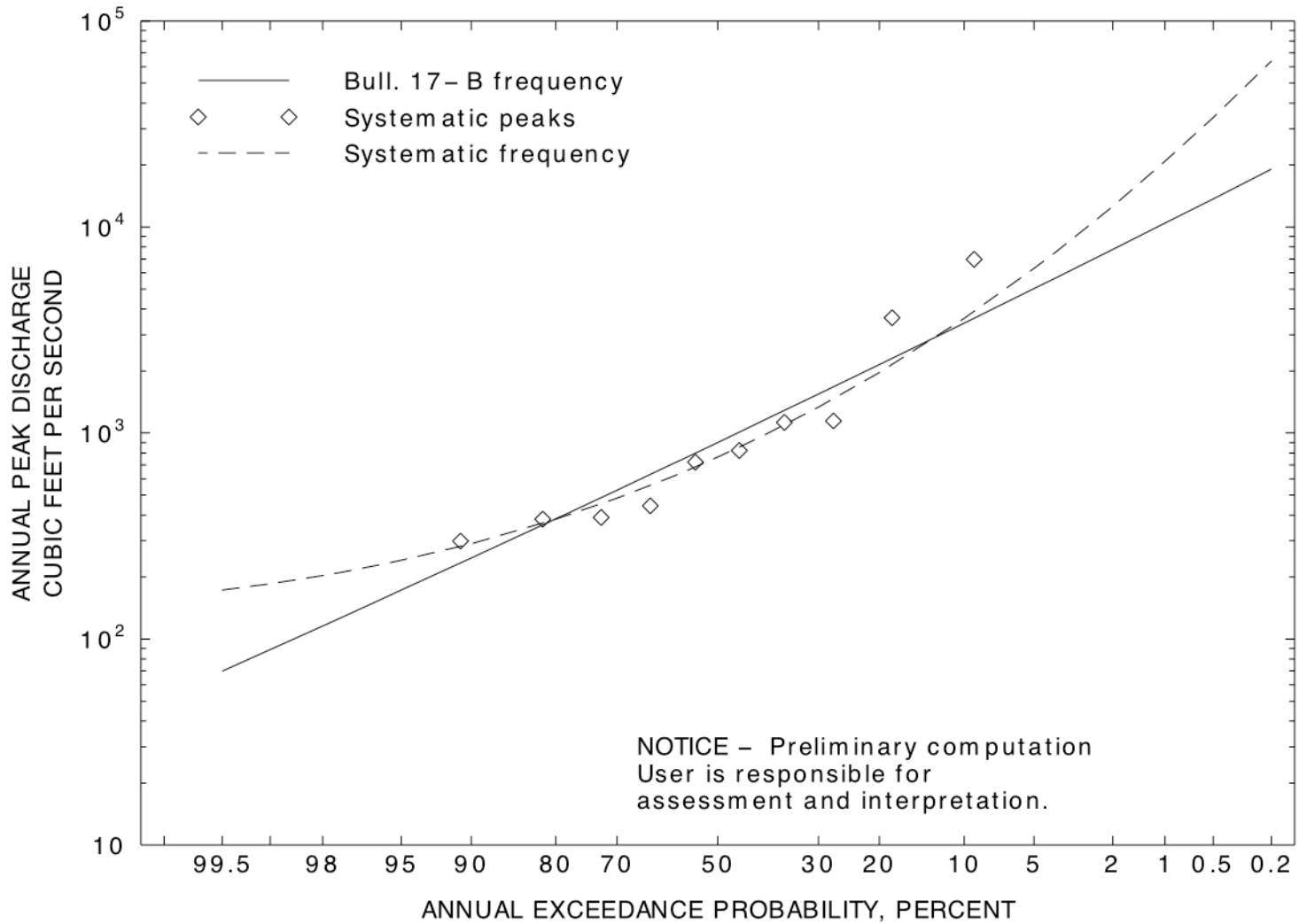
Explanation of peak discharge qualification codes

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
1991	7000.0	0.0909	0.0909
1993	3640.0	0.1818	0.1818
1994	1150.0	0.2727	0.2727
1987	1130.0	0.3636	0.3636
1989	825.0	0.4545	0.4545
1992	725.0	0.5455	0.5455
1988	445.0	0.6364	0.6364
1995	391.0	0.7273	0.7273
1990	384.0	0.8182	0.8182
1996	300.0	0.9091	0.9091



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