

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

Station - 04073462 WHITE CREEK @ SPRING GROVE ROAD NR GREEN LAKE,WI
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	=	11
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	11
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.367
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	653.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		24.1
**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	2.0987	0.3430	1.111
BULL.17B ESTIMATE	0.0	1.0000	2.0987	0.3430	0.122

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	18.0	36.3	10.8	5.2	33.5
0.9900	21.5	38.1	14.4	6.9	38.5
0.9500	35.2	45.8	29.3	14.5	57.3
0.9000	46.1	52.4	41.2	21.7	71.8
0.8000	64.3	64.3	60.7	34.8	96.3
0.5000	123.5	108.8	123.5	80.8	187.8
0.2000	242.7	225.9	258.5	162.2	446.5
0.1000	348.8	361.9	396.1	223.4	749.8
0.0400	516.9	642.9	658.8	309.3	1345.0
0.0200	669.1	970.5	954.7	380.1	1989.0
0.0100	846.1	1445.0	1383.0	457.0	2847.0
0.0050	1051.0	2131.0	2017.0	540.6	3975.0
0.0020	1371.0	3516.0	--	662.8	5994.0
0.6667	88.2	(1.50-year flood)			
0.4292	142.1	(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
1982	220.0		1988	41.0	
1983	222.0		1997	95.0	
1984	146.0		1998	59.0	
1985	109.0		1999	99.0	
1986	781.0		2000	116.0	
1987	76.0				

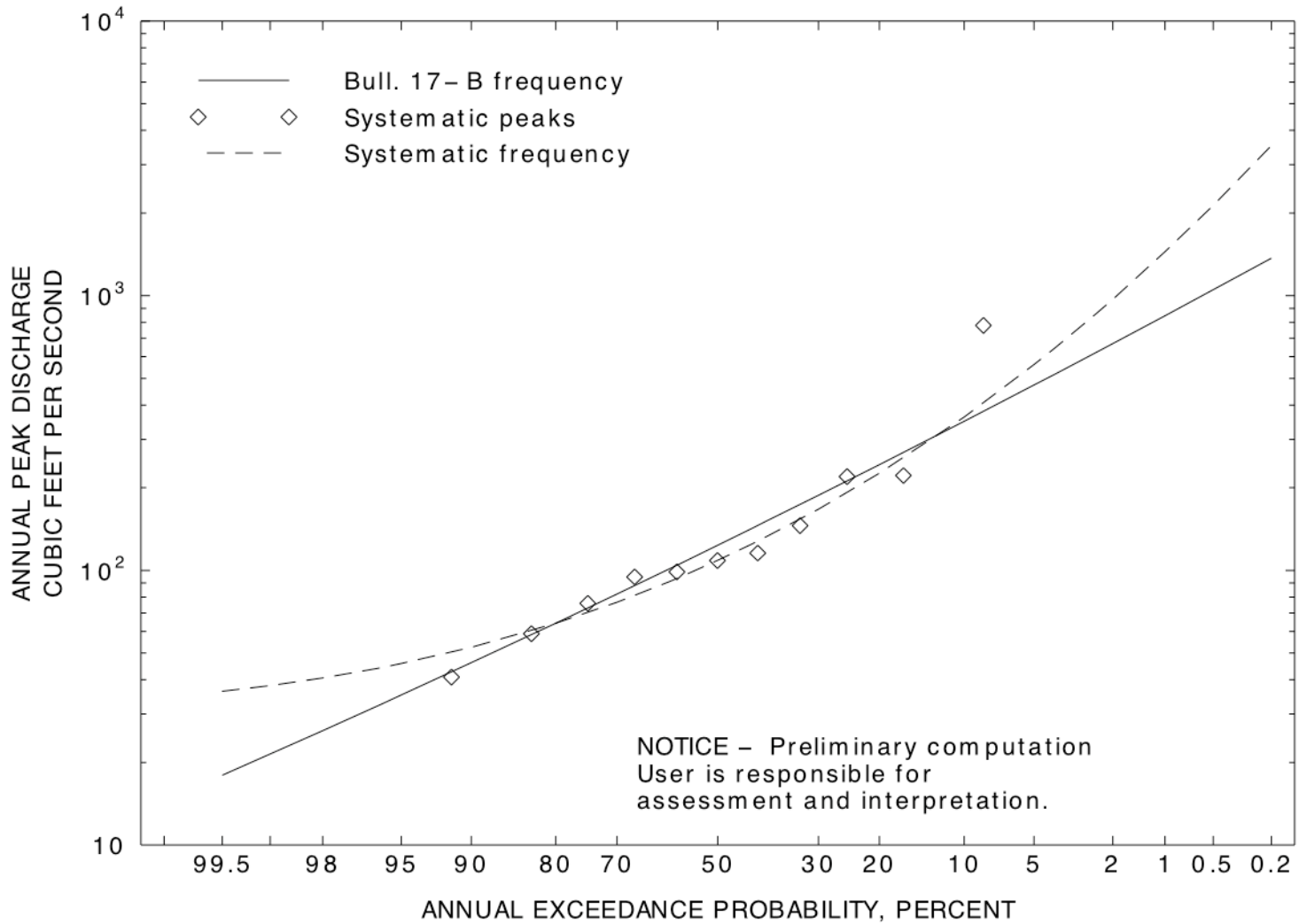
Explanation of peak discharge qualification codes

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
1986	781.0	0.0833	0.0833
1983	222.0	0.1667	0.1667
1982	220.0	0.2500	0.2500
1984	146.0	0.3333	0.3333
2000	116.0	0.4167	0.4167
1985	109.0	0.5000	0.5000
1999	99.0	0.5833	0.5833
1997	95.0	0.6667	0.6667
1987	76.0	0.7500	0.7500
1998	59.0	0.8333	0.8333
1988	41.0	0.9167	0.9167



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