

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

Station - 05392350 BEARSKIN CREEK NEAR HARSHAW, WI  
 2002 MAR 13 09:03:01

I N P U T   D A T A   S U M M A R Y

Number of peaks in record	=	41
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	41
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.174
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	178.1
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		34.0

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 2002 MAR 13 09:03:01

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	1.8909	0.1336	0.745
BULL.17B ESTIMATE	0.0	1.0000	1.8909	0.1336	0.394

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	39.4	43.5	38.2	33.1	44.9
0.9900	41.6	45.1	40.5	35.2	47.0
0.9500	48.6	50.4	47.9	42.4	54.0
0.9000	53.2	54.2	52.7	47.2	58.5
0.8000	59.8	59.8	59.5	53.9	65.1
0.5000	76.2	74.9	76.2	70.3	82.6
0.2000	100.0	99.1	100.7	91.9	110.8
0.1000	116.6	117.3	118.3	105.8	132.2
0.0400	138.7	143.0	142.3	123.5	162.2
0.0200	155.9	164.2	161.9	136.8	186.4
0.0100	173.7	187.2	183.0	150.3	212.4
0.0050	192.4	212.4	206.1	164.2	240.3
0.0020	218.6	249.2	239.9	183.3	280.4
0.6667	67.1	( 1.50-year flood )			
0.4292	80.4	( 2.33-year flood )			

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 2002 MAR 13 09:03:01

I N P U T   D A T A   L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1959	90.0		1981	180.0	
1960	104.0		1982	130.0	
1961	75.0		1983	75.0	
1962	65.0		1984	62.0	
1963	44.0		1985	78.0	
1964	48.0		1986	100.0	
1965	115.0		1987	70.0	
1966	73.0		1988	54.0	
1967	78.0		1989	48.0	
1968	132.0		1990	65.0	
1969	62.0		1991	63.0	
1970	54.0		1992	81.0	
1971	75.0		1993	83.0	
1972	68.0		1994	93.0	
1973	100.0		1995	60.0	
1974	62.0		1996	83.0	
1975	82.0		1997	74.0	
1976	77.0		1998	80.0	
1977	88.0		1999	89.0	
1978	65.0		2000	165.0	
1979	62.0				

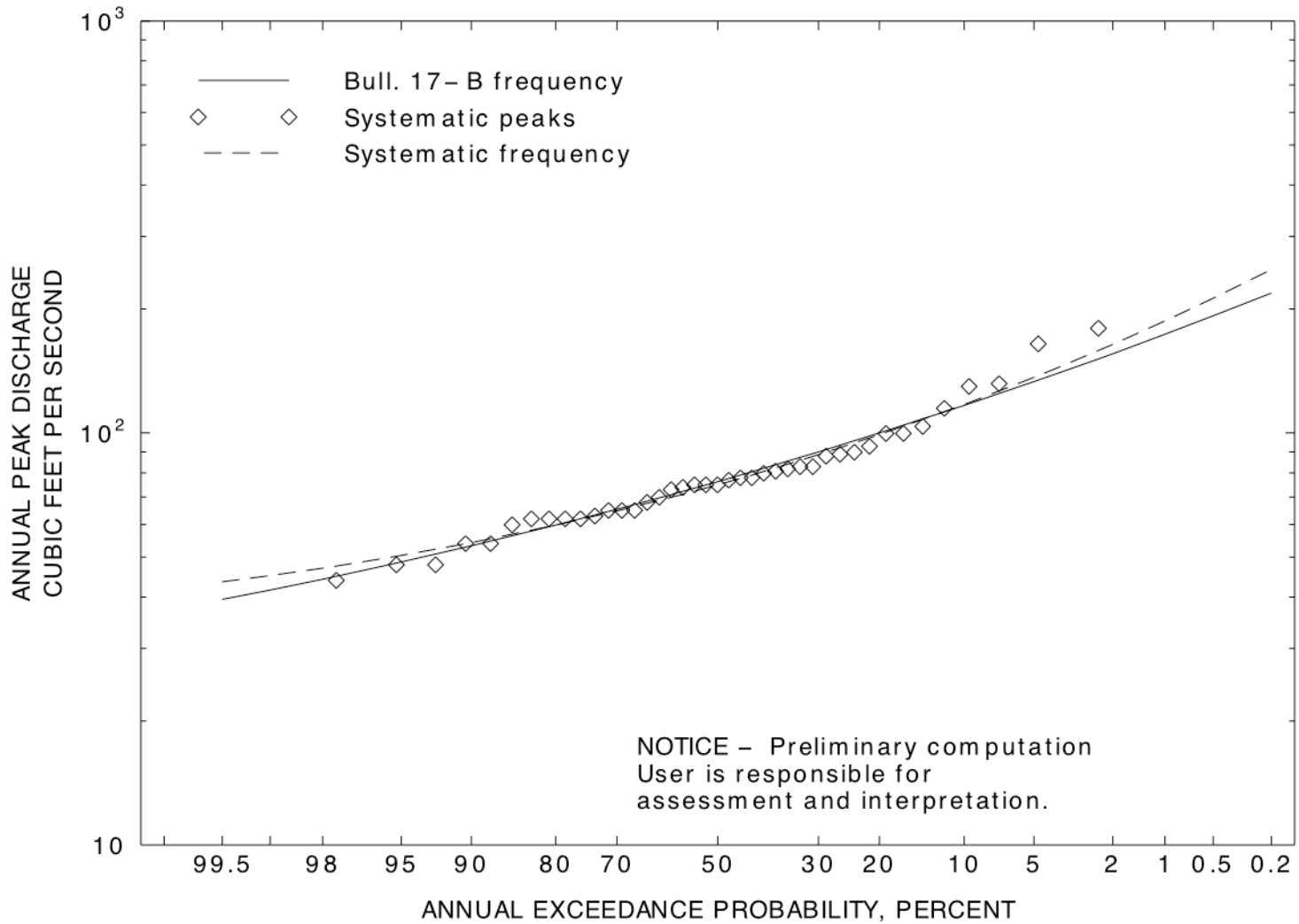
Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
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
1981	180.0	0.0238	0.0238
2000	165.0	0.0476	0.0476
1968	132.0	0.0714	0.0714
1982	130.0	0.0952	0.0952
1965	115.0	0.1190	0.1190
1960	104.0	0.1429	0.1429
1973	100.0	0.1667	0.1667
1986	100.0	0.1905	0.1905
1994	93.0	0.2143	0.2143
1959	90.0	0.2381	0.2381
1999	89.0	0.2619	0.2619
1977	88.0	0.2857	0.2857
1993	83.0	0.3095	0.3095
1996	83.0	0.3333	0.3333
1975	82.0	0.3571	0.3571
1992	81.0	0.3810	0.3810
1998	80.0	0.4048	0.4048
1967	78.0	0.4286	0.4286
1985	78.0	0.4524	0.4524
1976	77.0	0.4762	0.4762
1961	75.0	0.5000	0.5000
1971	75.0	0.5238	0.5238
1983	75.0	0.5476	0.5476
1997	74.0	0.5714	0.5714
1966	73.0	0.5952	0.5952
1987	70.0	0.6190	0.6190
1972	68.0	0.6429	0.6429
1962	65.0	0.6667	0.6667
1978	65.0	0.6905	0.6905
1990	65.0	0.7143	0.7143
1991	63.0	0.7381	0.7381
1969	62.0	0.7619	0.7619
1974	62.0	0.7857	0.7857
1979	62.0	0.8095	0.8095
1984	62.0	0.8333	0.8333
1995	60.0	0.8571	0.8571
1970	54.0	0.8810	0.8810
1988	54.0	0.9048	0.9048
1964	48.0	0.9286	0.9286
1989	48.0	0.9524	0.9524
1963	44.0	0.9762	0.9762



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