

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

Station - 05431400 LITTLE TURTLE CREEK AT ALLENS GROVE, WI
 2002 DEC 5 16:25:51

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

Number of peaks in record	=	38
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	38
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	=	420.0
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. *****

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	4	420.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		328.6
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	6518.2

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	420.0	0.8947	3.1259	0.2657	0.277
BULL.17B ESTIMATE	420.0	0.8947	3.1259	0.2657	0.048

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
0.8000	797.4	793.3	787.6	643.1	950.6
0.5000	1330.0	1299.0	1330.0	1126.0	1570.0
0.2000	2233.0	2214.0	2262.0	1873.0	2767.0
0.1000	2936.0	2974.0	3012.0	2408.0	3800.0
0.0400	3939.0	4124.0	4127.0	3128.0	5385.0
0.0200	4769.0	5131.0	5092.0	3699.0	6772.0
0.0100	5667.0	6273.0	6186.0	4297.0	8340.0
0.0050	6642.0	7571.0	7431.0	4929.0	10110.0
0.0020	8056.0	9556.0	9351.0	5819.0	12780.0
0.6667	1023.0	(1.50-year flood)			
0.4292	1482.5	(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
1962	1090.0		1982	2550.0	
1963	260.0		1983	1700.0	
1964	570.0		1984	1490.0	
1965	1130.0		1985	1480.0	
1966	1680.0		1986	1750.0	
1967	1420.0		1987	740.0	
1968	275.0		1988	1400.0	
1969	1870.0		1989	1070.0	
1970	560.0		1990	280.0	
1971	2440.0		1991	800.0	
1972	1490.0		1992	810.0	
1973	8400.0		1993	4100.0	
1975	2400.0		1994	650.0	
1976	2200.0		1995	420.0	L
1977	1700.0		1996	1570.0	
1978	1700.0		1997	1890.0	
1979	445.0		1998	1510.0	
1980	1700.0		1999	1550.0	
1981	1700.0		2000	1800.0	

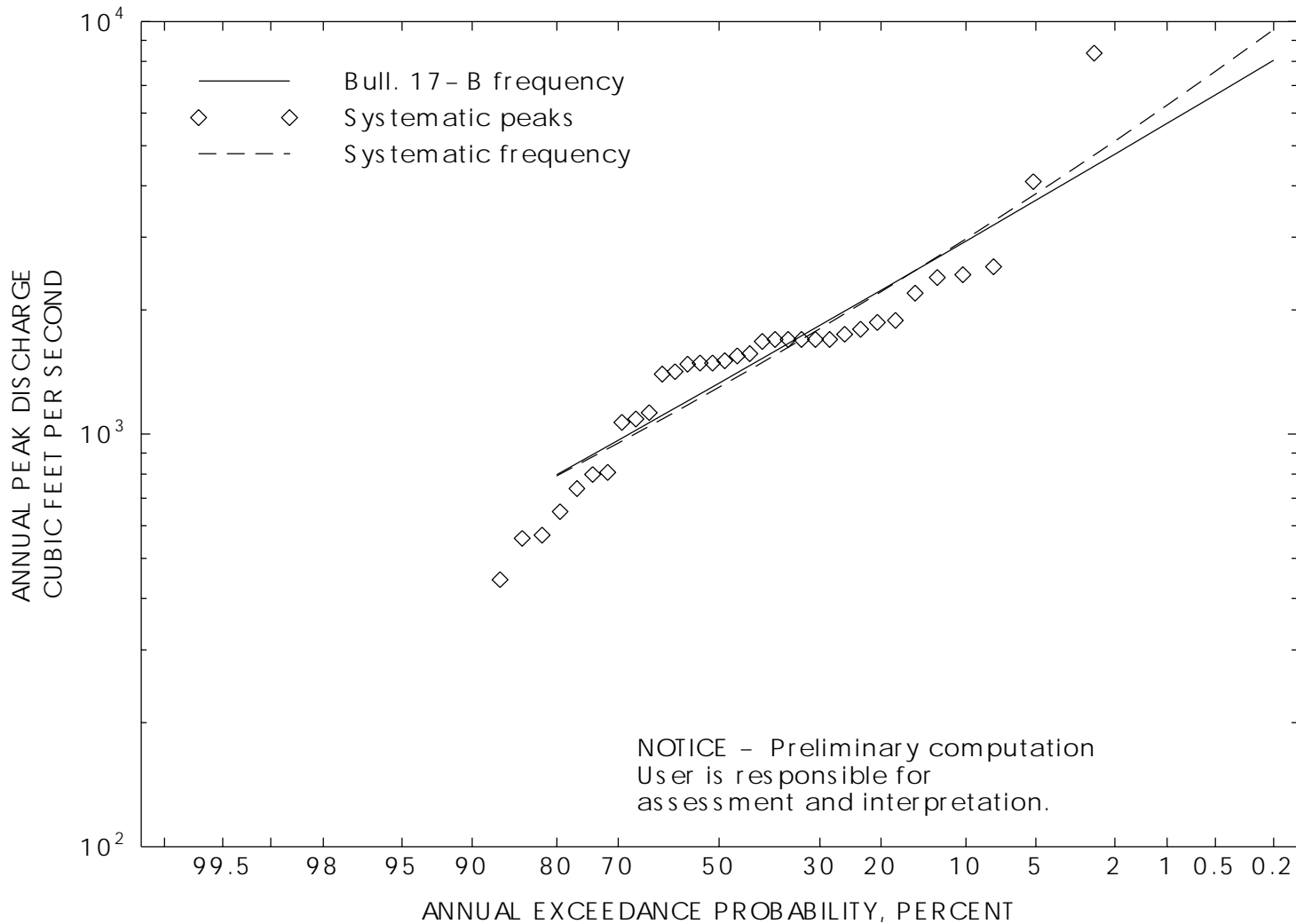
Explanation of peak discharge qualification codes

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
1973	8400.0	0.0256	0.0256
1993	4100.0	0.0513	0.0513
1982	2550.0	0.0769	0.0769
1971	2440.0	0.1026	0.1026
1975	2400.0	0.1282	0.1282
1976	2200.0	0.1538	0.1538
1997	1890.0	0.1795	0.1795
1969	1870.0	0.2051	0.2051
2000	1800.0	0.2308	0.2308
1986	1750.0	0.2564	0.2564
1977	1700.0	0.2821	0.2821
1978	1700.0	0.3077	0.3077
1980	1700.0	0.3333	0.3333
1981	1700.0	0.3590	0.3590
1983	1700.0	0.3846	0.3846
1966	1680.0	0.4103	0.4103
1996	1570.0	0.4359	0.4359
1999	1550.0	0.4615	0.4615
1998	1510.0	0.4872	0.4872
1972	1490.0	0.5128	0.5128
1984	1490.0	0.5385	0.5385
1985	1480.0	0.5641	0.5641
1967	1420.0	0.5897	0.5897
1988	1400.0	0.6154	0.6154
1965	1130.0	0.6410	0.6410
1962	1090.0	0.6667	0.6667
1989	1070.0	0.6923	0.6923
1992	810.0	0.7179	0.7179
1991	800.0	0.7436	0.7436
1987	740.0	0.7692	0.7692
1994	650.0	0.7949	0.7949
1964	570.0	0.8205	0.8205
1970	560.0	0.8462	0.8462
1979	445.0	0.8718	0.8718
1995	420.0	--	--
1990	280.0	--	--
1968	275.0	--	--
1963	260.0	--	--



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 2005 JUL 26 11:53:40