

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

Station - 05404200 NARROWS CREEK AT LOGANVILLE, WI
 2002 MAR 13 09:03:11

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

Number of peaks in record	=	36
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	36
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.391
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
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	204.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	12575.7

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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	3.2050	0.3390	-0.682
BULL.17B ESTIMATE	0.0	1.0000	3.2050	0.3390	-0.566

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	142.5	131.3	113.8	75.2	222.0
0.9900	190.1	178.7	160.6	107.2	284.2
0.9500	396.7	389.0	369.5	261.8	537.3
0.9000	569.2	566.8	545.4	402.8	740.1
0.8000	857.0	864.2	839.8	648.8	1076.0
0.5000	1725.0	1751.0	1725.0	1390.0	2154.0
0.2000	3130.0	3130.0	3172.0	2485.0	4160.0
0.1000	4109.0	4048.0	4210.0	3190.0	5709.0
0.0400	5340.0	5153.0	5560.0	4034.0	7788.0
0.0200	6233.0	5921.0	6566.0	4624.0	9371.0
0.0100	7094.0	6636.0	7569.0	5179.0	10950.0
0.0050	7925.0	7302.0	8558.0	5704.0	12520.0
0.0020	8978.0	8113.0	9862.0	6357.0	14560.0
0.6667	1221.1	(1.50-year flood)			
0.4292	1982.8	(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
1958	250.0		1976	2650.0	
1959	1580.0		1977	1700.0	
1960	4600.0		1978	1750.0	
1961	2550.0		1979	1050.0	
1962	2400.0		1980	2100.0	
1963	1950.0		1981	1850.0	
1964	400.0		1982	1500.0	
1965	3950.0		1983	925.0	
1966	1370.0		1984	2300.0	
1967	2450.0		1985	3000.0	
1968	1700.0		1986	2200.0	
1969	3050.0		1987	425.0	
1970	625.0		1988	310.0	
1971	970.0		1989	1725.0	
1972	2500.0		1990	7200.0	
1973	1850.0		1991	450.0	
1974	1700.0		1992	5650.0	
1975	1250.0		1993	2400.0	

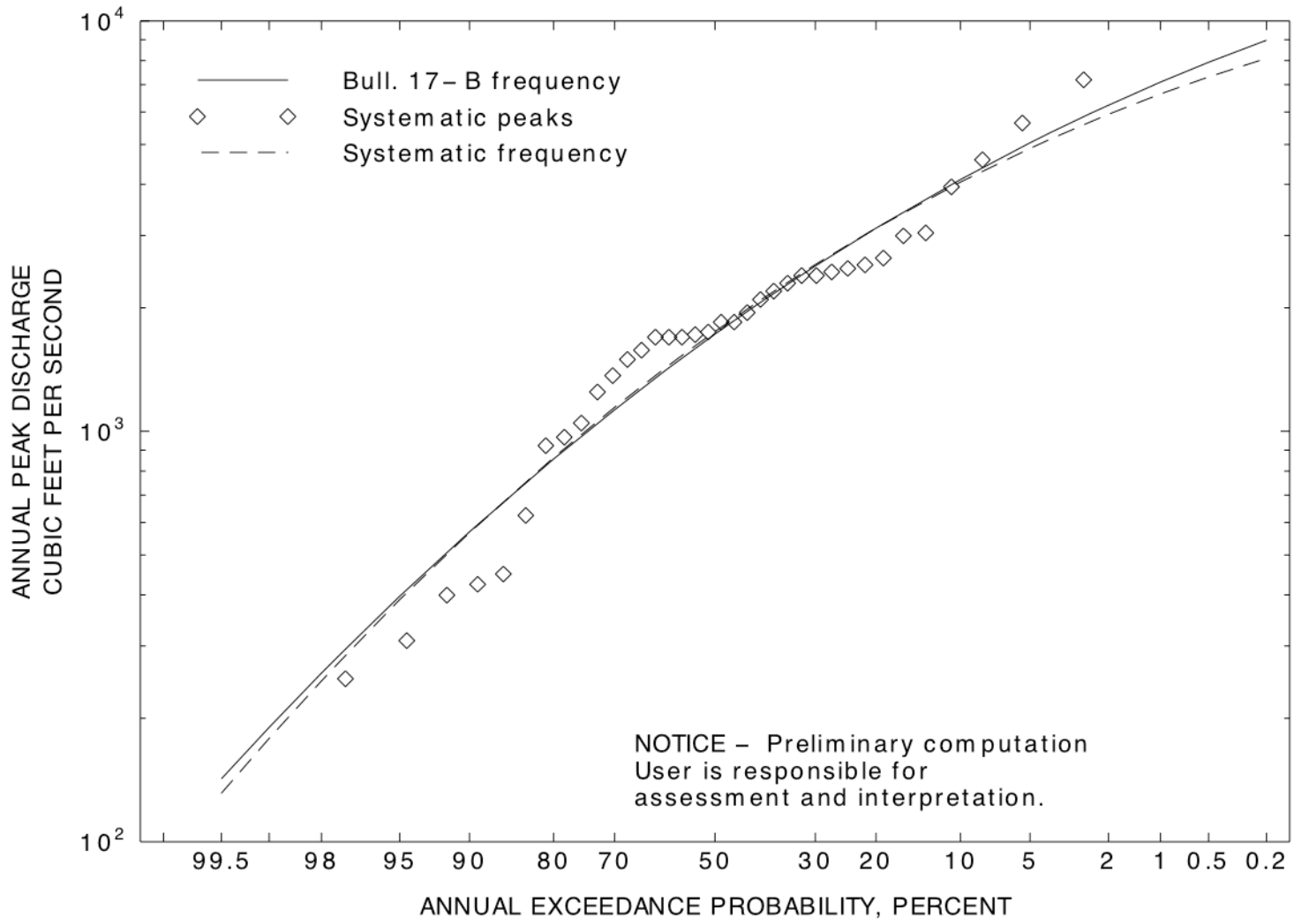
Explanation of peak discharge qualification codes

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
1990	7200.0	0.0270	0.0270
1992	5650.0	0.0541	0.0541
1960	4600.0	0.0811	0.0811
1965	3950.0	0.1081	0.1081
1969	3050.0	0.1351	0.1351
1985	3000.0	0.1622	0.1622
1976	2650.0	0.1892	0.1892
1961	2550.0	0.2162	0.2162
1972	2500.0	0.2432	0.2432
1967	2450.0	0.2703	0.2703
1962	2400.0	0.2973	0.2973
1993	2400.0	0.3243	0.3243
1984	2300.0	0.3514	0.3514
1986	2200.0	0.3784	0.3784
1980	2100.0	0.4054	0.4054
1963	1950.0	0.4324	0.4324
1973	1850.0	0.4595	0.4595
1981	1850.0	0.4865	0.4865
1978	1750.0	0.5135	0.5135
1989	1725.0	0.5405	0.5405
1968	1700.0	0.5676	0.5676
1974	1700.0	0.5946	0.5946
1977	1700.0	0.6216	0.6216
1959	1580.0	0.6486	0.6486
1982	1500.0	0.6757	0.6757
1966	1370.0	0.7027	0.7027
1975	1250.0	0.7297	0.7297
1979	1050.0	0.7568	0.7568
1971	970.0	0.7838	0.7838
1983	925.0	0.8108	0.8108
1970	625.0	0.8378	0.8378
1991	450.0	0.8649	0.8649
1987	425.0	0.8919	0.8919
1964	400.0	0.9189	0.9189
1988	310.0	0.9459	0.9459
1958	250.0	0.9730	0.9730



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