

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

Station - 05405600 ROWAN CREEK AT POYNETTE, 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	=	40
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	40
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.388
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	30.0
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.	3	30.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		30.4
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		2736.7

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	30.0	0.9250	2.4187	0.3884	0.086
BULL.17B ESTIMATE	30.0	0.9250	2.4187	0.3884	-0.059

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
0.9000	82.9	84.1	80.0	57.5	110.1
0.8000	123.9	123.1	121.7	91.4	159.2
0.5000	264.6	258.9	264.6	208.9	335.4
0.2000	558.0	554.5	567.7	434.2	757.2
0.1000	820.3	831.6	848.3	618.6	1181.0
0.0400	1232.0	1288.0	1309.0	890.0	1907.0
0.0200	1600.0	1715.0	1740.0	1120.0	2603.0
0.0100	2020.0	2222.0	2258.0	1373.0	3443.0
0.0050	2499.0	2822.0	2877.0	1651.0	4446.0
0.0020	3228.0	3777.0	3884.0	2060.0	6057.0
0.6667	179.8	(1.50-year flood)			
0.4292	310.3	(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
1961	150.0		1981	470.0	
1962	250.0		1982	280.0	
1963	350.0		1983	75.0	
1964	80.0		1984	305.0	
1965	2260.0		1985	680.0	
1966	350.0		1986	430.0	
1967	450.0		1987	220.0	
1968	50.0		1988	30.0	L
1969	315.0		1989	610.0	
1970	20.0	L	1990	260.0	
1971	150.0		1991	170.0	
1972	160.0		1992	210.0	
1973	1330.0		1993	540.0	
1974	450.0		1994	360.0	
1975	330.0		1995	120.0	
1976	820.0		1996	210.0	
1977	150.0		1997	990.0	
1978	80.0		1998	220.0	
1979	30.0	L	1999	90.0	
1980	370.0		2000	975.0	

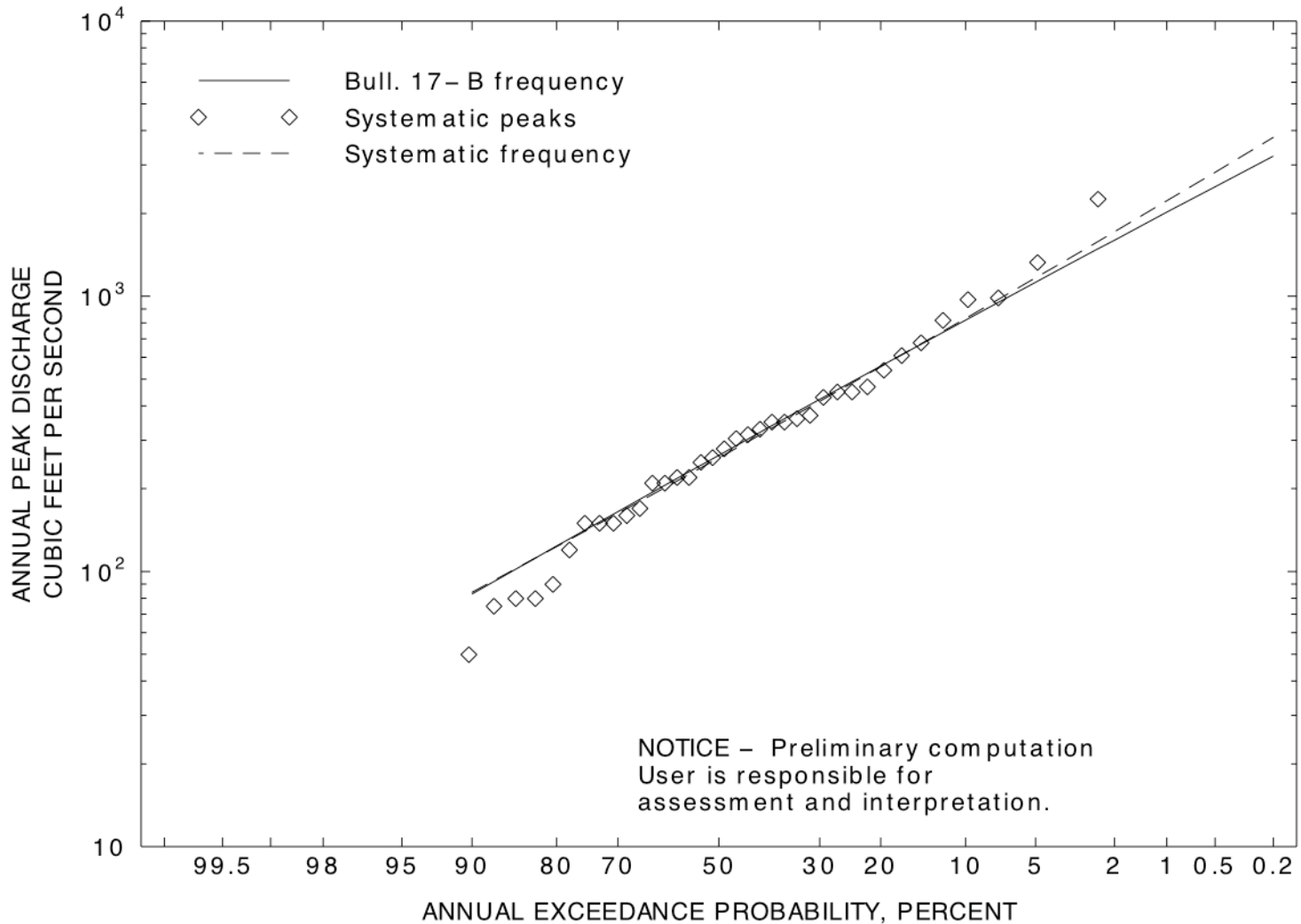
Explanation of peak discharge qualification codes

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
1965	2260.0	0.0244	0.0244
1973	1330.0	0.0488	0.0488
1997	990.0	0.0732	0.0732
2000	975.0	0.0976	0.0976
1976	820.0	0.1220	0.1220
1985	680.0	0.1463	0.1463
1989	610.0	0.1707	0.1707
1993	540.0	0.1951	0.1951
1981	470.0	0.2195	0.2195
1967	450.0	0.2439	0.2439
1974	450.0	0.2683	0.2683
1986	430.0	0.2927	0.2927
1980	370.0	0.3171	0.3171
1994	360.0	0.3415	0.3415
1963	350.0	0.3659	0.3659
1966	350.0	0.3902	0.3902
1975	330.0	0.4146	0.4146
1969	315.0	0.4390	0.4390
1984	305.0	0.4634	0.4634
1982	280.0	0.4878	0.4878
1990	260.0	0.5122	0.5122
1962	250.0	0.5366	0.5366
1987	220.0	0.5610	0.5610
1998	220.0	0.5854	0.5854
1992	210.0	0.6098	0.6098
1996	210.0	0.6341	0.6341
1991	170.0	0.6585	0.6585
1972	160.0	0.6829	0.6829
1961	150.0	0.7073	0.7073
1971	150.0	0.7317	0.7317
1977	150.0	0.7561	0.7561
1995	120.0	0.7805	0.7805
1999	90.0	0.8049	0.8049
1964	80.0	0.8293	0.8293
1978	80.0	0.8537	0.8537
1983	75.0	0.8780	0.8780
1968	50.0	0.9024	0.9024
1979	30.0	--	--
1988	30.0	--	--
1970	20.0	--	--



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