

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

Station - 04075200 EVERGREEN CREEK NR LANGLADE, 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	=	38
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	38
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.206
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	25.0
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	25.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		89.7
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		22.4

Station - 04075200 EVERGREEN CREEK NR LANGLADE, WI  
 2002 MAR 13 09:02:33

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	25.0	0.9211	1.6388	0.1197	0.573
BULL.17B ESTIMATE	25.0	0.9211	1.6388	0.1197	0.282

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	30.9	31.2	30.6	27.5	33.7
0.8000	34.4	34.4	34.2	31.2	37.3
0.5000	43.0	42.4	43.0	39.8	46.3
0.2000	54.6	54.3	55.0	50.5	60.2
0.1000	62.4	62.8	63.2	57.1	70.2
0.0400	72.4	74.1	74.1	65.1	83.7
0.0200	79.9	83.1	82.7	70.9	94.2
0.0100	87.5	92.6	91.7	76.7	105.1
0.0050	95.2	102.6	101.2	82.6	116.6
0.0020	105.8	116.7	114.9	90.4	132.5
0.6667	38.3	( 1.50-year flood )			
0.4292	45.1	( 2.33-year flood )			

Station - 04075200 EVERGREEN CREEK NR LANGLADE, WI  
 2002 MAR 13 09:02:33

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	42.0		1978	56.0	
1960	63.0		1979	48.0	
1961	66.0		1981	42.0	
1962	25.0		1982	80.0	
1963	32.0		1983	48.0	
1964	33.0		1984	44.0	
1965	78.0		1985	45.0	
1966	50.0		1986	51.0	
1967	36.0		1987	39.0	
1968	35.0		1988	53.0	
1969	54.0		1989	35.0	
1970	51.0		1990	79.0	
1971	39.0		1991	25.0	L
1972	31.0		1992	34.0	
1973	46.0		1994	43.0	
1974	35.0		1995	48.0	
1975	43.0		1996	25.0	L
1976	46.0		1997	33.0	
1977	31.0		1998	37.0	

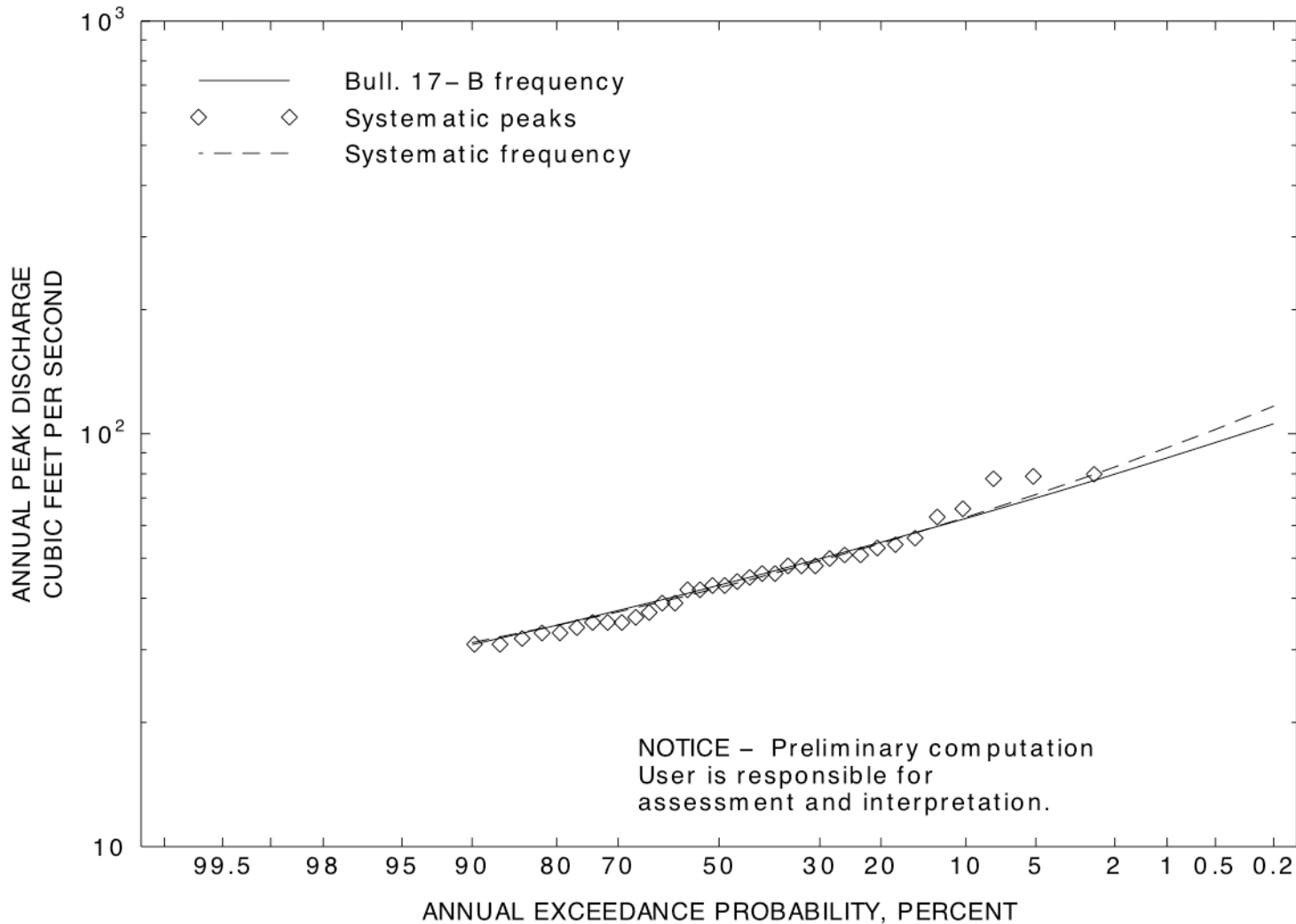
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE 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

Station - 04075200 EVERGREEN CREEK NR LANGLADE, WI  
2002 MAR 13 09:02:33

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1982	80.0	0.0256	0.0256
1990	79.0	0.0513	0.0513
1965	78.0	0.0769	0.0769
1961	66.0	0.1026	0.1026
1960	63.0	0.1282	0.1282
1978	56.0	0.1538	0.1538
1969	54.0	0.1795	0.1795
1988	53.0	0.2051	0.2051
1970	51.0	0.2308	0.2308
1986	51.0	0.2564	0.2564
1966	50.0	0.2821	0.2821
1979	48.0	0.3077	0.3077
1983	48.0	0.3333	0.3333
1995	48.0	0.3590	0.3590
1973	46.0	0.3846	0.3846
1976	46.0	0.4103	0.4103
1985	45.0	0.4359	0.4359
1984	44.0	0.4615	0.4615
1975	43.0	0.4872	0.4872
1994	43.0	0.5128	0.5128
1959	42.0	0.5385	0.5385
1981	42.0	0.5641	0.5641
1971	39.0	0.5897	0.5897
1987	39.0	0.6154	0.6154
1998	37.0	0.6410	0.6410
1967	36.0	0.6667	0.6667
1968	35.0	0.6923	0.6923
1974	35.0	0.7179	0.7179
1989	35.0	0.7436	0.7436
1992	34.0	0.7692	0.7692
1964	33.0	0.7949	0.7949
1997	33.0	0.8205	0.8205
1963	32.0	0.8462	0.8462
1972	31.0	0.8718	0.8718
1977	31.0	0.8974	0.8974
1962	25.0	--	--
1991	25.0	--	--
1996	25.0	--	--



Station - 04075200 EVERGREEN CREEK NR LANGLADE, WI  
2002 MAR 13 09:02:33