

U. S. GEOLOGICAL SURVEY
 ANNUAL PEAK FLOW FREQUENCY ANALYSIS
 Following Bulletin 17-B Guidelines
 Program peakfq
 (Version 4.1, February, 2002)

Station - 05431500 TURTLE CREEK NEAR CLINTON, WI
 2005 APR 8 12:18:24

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	=	40
Historic peaks in analysis	=	1
Years of historic record	=	66
Generalized skew	=	-0.400
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.	237.6
WCF156I-17B HI-OUTLIER TEST SUPERSEDED BY MIN HIST PK	16600.2
WCF165I-HIGH OUTLIERS AND HISTORIC PEAKS ABOVE HHBASE.	1 1 10700.0

Station - 05431500 TURTLE CREEK NEAR CLINTON, WI
 2005 APR 8 12:18:24

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	3.2980	0.3438	-0.292
BULL.17B ESTIMATE	0.0	1.0000	3.3001	0.3410	-0.363

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	202.3	208.1	169.7	114.3	303.6
0.9900	261.3	266.1	228.5	155.8	378.6
0.9500	508.4	507.3	479.5	345.9	677.3
0.9000	711.2	704.6	686.2	513.8	913.9
0.8000	1049.0	1034.0	1031.0	804.6	1306.0
0.5000	2093.0	2064.0	2093.0	1703.0	2581.0
0.2000	3904.0	3901.0	3956.0	3130.0	5108.0
0.1000	5269.0	5327.0	5402.0	4124.0	7218.0
0.0400	7119.0	7311.0	7430.0	5402.0	10280.0
0.0200	8558.0	8895.0	9063.0	6358.0	12790.0
0.0100	10030.0	10550.0	10800.0	7311.0	15460.0
0.0050	11540.0	12280.0	12620.0	8262.0	18290.0
0.0020	13580.0	14680.0	15220.0	9519.0	22250.0
0.6667	1481.6	(1.50-year flood)			
0.4292	2408.3	(2.33-year flood)			

Station - 05431500 TURTLE CREEK NEAR CLINTON, WI
 2005 APR 8 12:18:24

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
-1938	10700.0	H	1960	3400.0	
1940	2020.0		1961	1600.0	
1941	1120.0		1962	1880.0	
1942	1950.0		1963	1300.0	
1943	3950.0		1964	2640.0	
1944	2980.0		1965	1800.0	
1945	3380.0		1966	2500.0	
1946	5850.0		1967	560.0	
1947	1270.0		1968	269.0	
1948	5350.0		1969	1070.0	
1949	6560.0		1970	1300.0	
1950	4150.0		1971	2500.0	
1951	2060.0		1972	2570.0	
1952	1930.0		1973	16500.0	
1953	2350.0		1974	2840.0	
1954	756.0		1975	3190.0	
1955	2270.0		1976	2780.0	
1956	590.0		1977	1410.0	
1957	800.0		1978	1840.0	
1958	320.0		1979	2600.0	
1959	3020.0				

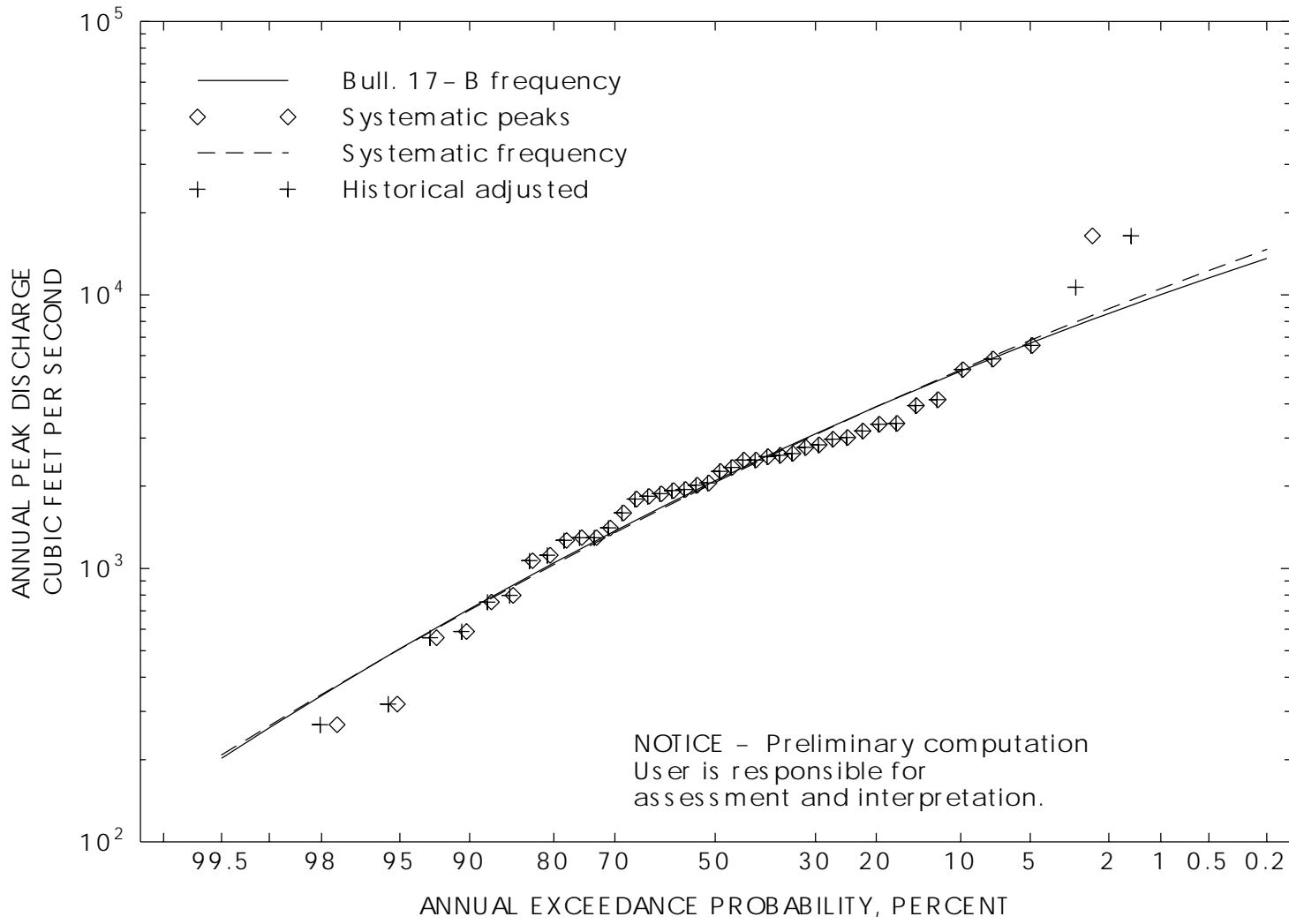
Explanation of peak discharge qualification codes

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 - 05431500 TURTLE CREEK NEAR CLINTON, WI
2005 APR 8 12:18:24

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1973	16500.0	0.0244	0.0149
-1938	10700.0	--	0.0299
1949	6560.0	0.0488	0.0496
1946	5850.0	0.0732	0.0741
1948	5350.0	0.0976	0.0985
1950	4150.0	0.1220	0.1230
1943	3950.0	0.1463	0.1475
1960	3400.0	0.1707	0.1720
1945	3380.0	0.1951	0.1965
1975	3190.0	0.2195	0.2210
1959	3020.0	0.2439	0.2455
1944	2980.0	0.2683	0.2700
1974	2840.0	0.2927	0.2945
1976	2780.0	0.3171	0.3190
1964	2640.0	0.3415	0.3435
1979	2600.0	0.3659	0.3680
1972	2570.0	0.3902	0.3925
1966	2500.0	0.4146	0.4170
1971	2500.0	0.4390	0.4414
1953	2350.0	0.4634	0.4659
1955	2270.0	0.4878	0.4904
1951	2060.0	0.5122	0.5149
1940	2020.0	0.5366	0.5394
1942	1950.0	0.5610	0.5639
1952	1930.0	0.5854	0.5884
1962	1880.0	0.6098	0.6129
1978	1840.0	0.6341	0.6374
1965	1800.0	0.6585	0.6619
1961	1600.0	0.6829	0.6864
1977	1410.0	0.7073	0.7109
1963	1300.0	0.7317	0.7354
1970	1300.0	0.7561	0.7599
1947	1270.0	0.7805	0.7843
1941	1120.0	0.8049	0.8088
1969	1070.0	0.8293	0.8333
1957	800.0	0.8537	0.8578
1954	756.0	0.8780	0.8823
1956	590.0	0.9024	0.9068
1967	560.0	0.9268	0.9313
1958	320.0	0.9512	0.9558
1968	269.0	0.9756	0.9803



NOTICE - Preliminary computation
 User is responsible for
 assessment and interpretation.

Station - 05431500 TURTLE CREEK NEAR CLINTON, WI
 2005 APR 8 12:18:24