

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

Station - 05414000 PLATTE RIVER NEAR ROCKVILLE, WI
 2002 MAR 15 14:49:43

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

Number of peaks in record	=	66
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	65
Historic peaks in analysis	=	1
Years of historic record	=	124
Generalized skew	=	-0.400
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	0.0
User supplied high outlier threshold	=	43500.0
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
WCF198I-LOW OUTLIERS BELOW FLOOD BASE WERE DROPPED.	1	276.6
*WCF161I-USER HIGH OUTLIER CRITERION REPLACES 17B.	43500.0	37253.6
WCF165I-HIGH OUTLIERS AND HISTORIC PEAKS ABOVE HHBASE.	0 1	43500.0

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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	3.5386	0.3827	-0.641
BULL.17B ESTIMATE	276.6	0.9847	3.5585	0.3680	-0.209

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	--	211.6	--	--	--
0.9900	--	297.4	--	--	--
0.9500	855.1	703.8	825.1	628.6	1093.0
0.9000	1201.0	1070.0	1174.0	922.4	1490.0
0.8000	1791.0	1714.0	1772.0	1439.0	2162.0
0.5000	3726.0	3795.0	3726.0	3131.0	4441.0
0.2000	7437.0	7355.0	7506.0	6154.0	9272.0
0.1000	10500.0	9891.0	10690.0	8487.0	13600.0
0.0400	14980.0	13090.0	15460.0	11750.0	20320.0
0.0200	18730.0	15410.0	19550.0	14370.0	26200.0
0.0100	22790.0	17630.0	24090.0	17140.0	32800.0
0.0050	27180.0	19760.0	29120.0	20070.0	40150.0
0.0020	33490.0	22420.0	36600.0	24170.0	51070.0
0.6667	2574.5	(1.50-year flood)			
0.4292	4335.9	(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
-1950	43500.0	H	1968	1000.0	
1935	3980.0		1969	4980.0	
1936	2730.0		1970	1300.0	
1937	8560.0		1971	1560.0	
1938	5980.0		1972	5550.0	
1939	3060.0		1973	5250.0	
1940	13100.0		1974	6370.0	
1941	4180.0		1975	6180.0	
1942	3670.0		1976	2980.0	
1943	10400.0		1977	5170.0	
1944	6310.0		1978	9700.0	
1945	3660.0		1979	4040.0	
1946	8700.0		1980	2560.0	
1947	11000.0		1981	1540.0	
1948	7980.0		1982	2990.0	
1949	4150.0		1983	1110.0	
1951	13900.0		1984	2200.0	
1952	1660.0		1985	4000.0	
1953	7290.0		1986	1780.0	
1954	16400.0		1987	672.0	
1955	3080.0		1988	380.0	
1956	2400.0		1989	3210.0	
1957	2620.0		1990	19000.0	
1958	1060.0		1991	3350.0	
1959	7220.0		1992	913.0	
1960	7550.0		1993	3980.0	
1961	4080.0		1994	2860.0	
1962	6160.0		1995	926.0	
1963	6140.0		1996	220.0	
1964	2040.0		1997	1180.0	
1965	3000.0		1998	3220.0	
1966	5940.0		1999	1420.0	
1967	8000.0		2000	3290.0	

Explanation of peak discharge qualification codes

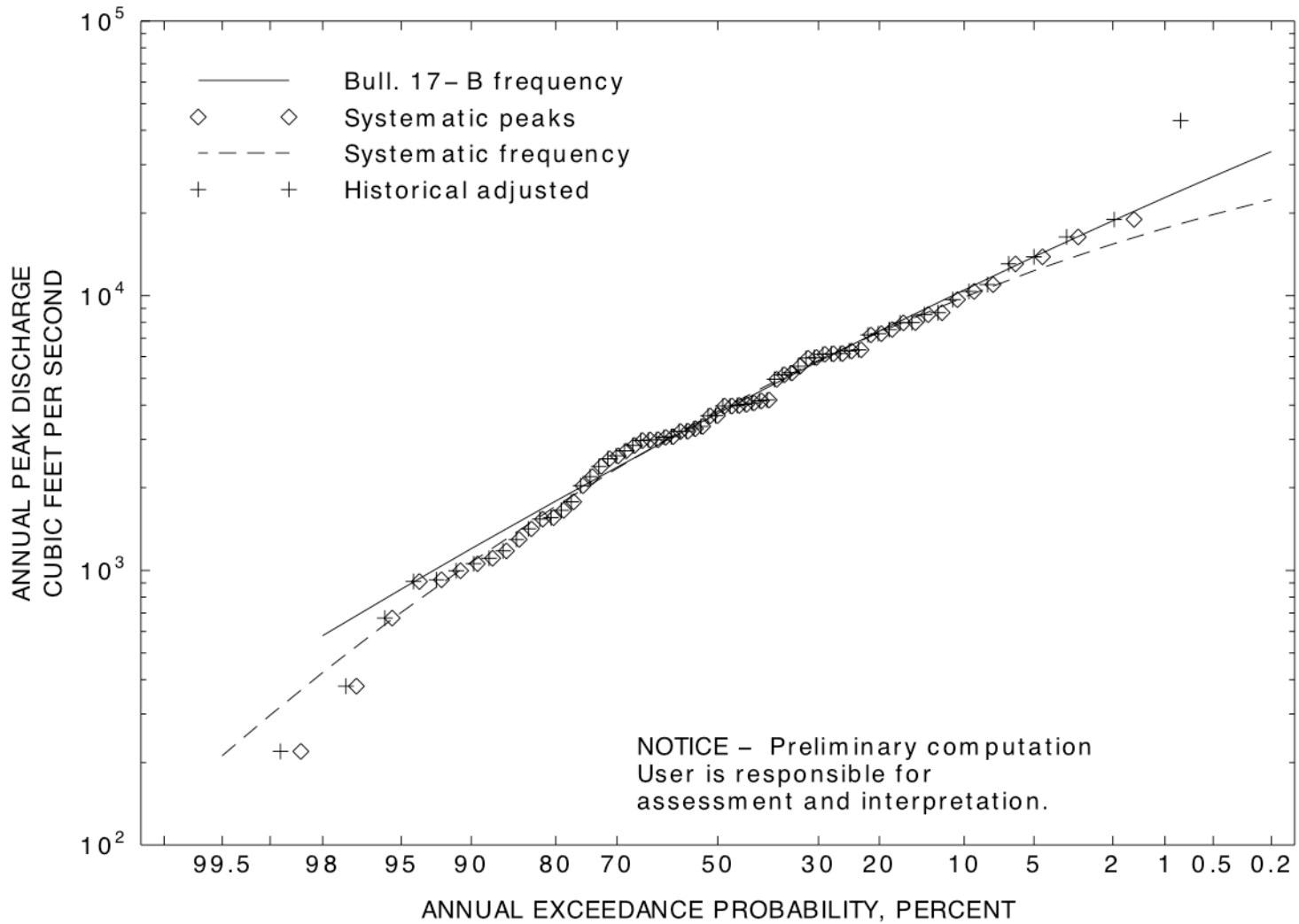
PEAKFQ	WATSTORE	DEFINITION
CODE	CODE	
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
-1950	43500.0	--	0.0080
1990	19000.0	0.0152	0.0196
1954	16400.0	0.0303	0.0347
1951	13900.0	0.0455	0.0498
1940	13100.0	0.0606	0.0650
1947	11000.0	0.0758	0.0801
1943	10400.0	0.0909	0.0953
1978	9700.0	0.1061	0.1104
1946	8700.0	0.1212	0.1255
1937	8560.0	0.1364	0.1407
1967	8000.0	0.1515	0.1558
1948	7980.0	0.1667	0.1710
1960	7550.0	0.1818	0.1861
1953	7290.0	0.1970	0.2012
1959	7220.0	0.2121	0.2164
1974	6370.0	0.2273	0.2315
1944	6310.0	0.2424	0.2466
1975	6180.0	0.2576	0.2618
1962	6160.0	0.2727	0.2769
1963	6140.0	0.2879	0.2921
1938	5980.0	0.3030	0.3072
1966	5940.0	0.3182	0.3223
1972	5550.0	0.3333	0.3375
1973	5250.0	0.3485	0.3526
1977	5170.0	0.3636	0.3678
1969	4980.0	0.3788	0.3829
1941	4180.0	0.3939	0.3980
1949	4150.0	0.4091	0.4132
1961	4080.0	0.4242	0.4283
1979	4040.0	0.4394	0.4434
1985	4000.0	0.4545	0.4586
1935	3980.0	0.4697	0.4737
1993	3980.0	0.4848	0.4889
1942	3670.0	0.5000	0.5040
1945	3660.0	0.5152	0.5191
1991	3350.0	0.5303	0.5343
2000	3290.0	0.5455	0.5494
1998	3220.0	0.5606	0.5646
1989	3210.0	0.5758	0.5797
1955	3080.0	0.5909	0.5948
1939	3060.0	0.6061	0.6100
1965	3000.0	0.6212	0.6251
1982	2990.0	0.6364	0.6402
1976	2980.0	0.6515	0.6554
1994	2860.0	0.6667	0.6705
1936	2730.0	0.6818	0.6857
1957	2620.0	0.6970	0.7008
1980	2560.0	0.7121	0.7159

1956	2400.0	0.7273	0.7311
1984	2200.0	0.7424	0.7462
1964	2040.0	0.7576	0.7614
1986	1780.0	0.7727	0.7765
1952	1660.0	0.7879	0.7916
1971	1560.0	0.8030	0.8068
1981	1540.0	0.8182	0.8219
1999	1420.0	0.8333	0.8370
1970	1300.0	0.8485	0.8522
1997	1180.0	0.8636	0.8673
1983	1110.0	0.8788	0.8825
1958	1060.0	0.8939	0.8976
1968	1000.0	0.9091	0.9127
1995	926.0	0.9242	0.9279
1992	913.0	0.9394	0.9430
1987	672.0	0.9545	0.9582
1988	380.0	0.9697	0.9733
1996	220.0	0.9848	0.9884



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