

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

Station - 05400650 LITTLE PLOVER RIVER AT PLOVER, WI
2002 MAR 13 09:03:06

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

Number of peaks in record	=	28
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	28
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.314
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.	13.6
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	155.8

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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	1.6630	0.2090	-0.575
BULL.17B ESTIMATE	0.0	1.0000	1.6630	0.2090	-0.462

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	10.8	10.3	9.1	6.9	14.6
0.9900	12.8	12.3	11.3	8.5	16.8
0.9500	19.7	19.4	18.6	14.6	24.2
0.9000	24.4	24.3	23.6	19.0	29.2
0.8000	31.1	31.3	30.7	25.5	36.5
0.5000	47.8	48.2	47.8	41.0	55.8
0.2000	69.5	69.5	70.3	59.2	85.2
0.1000	82.9	82.2	84.6	69.5	105.1
0.0400	98.5	96.5	102.1	81.0	129.9
0.0200	109.4	106.1	114.6	88.7	147.8
0.0100	119.5	114.8	126.8	95.7	165.0
0.0050	129.1	122.8	138.7	102.3	181.7
0.0020	141.0	132.5	154.1	110.3	203.1
0.6667	38.6	(1.50-year flood)			
0.4292	52.0	(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
1960	60.0		1974	28.0	
1961	60.0		1975	46.0	
1962	67.0		1976	50.0	
1963	49.0		1977	16.0	
1964	17.0		1978	22.0	
1965	59.0		1979	52.0	
1966	79.0		1980	45.0	
1967	70.0		1981	54.0	
1968	32.0		1982	32.0	
1969	63.0		1983	48.0	
1970	64.0		1984	32.0	
1971	27.0		1985	105.0	
1972	60.0		1986	61.0	
1973	99.0		1987	30.0	

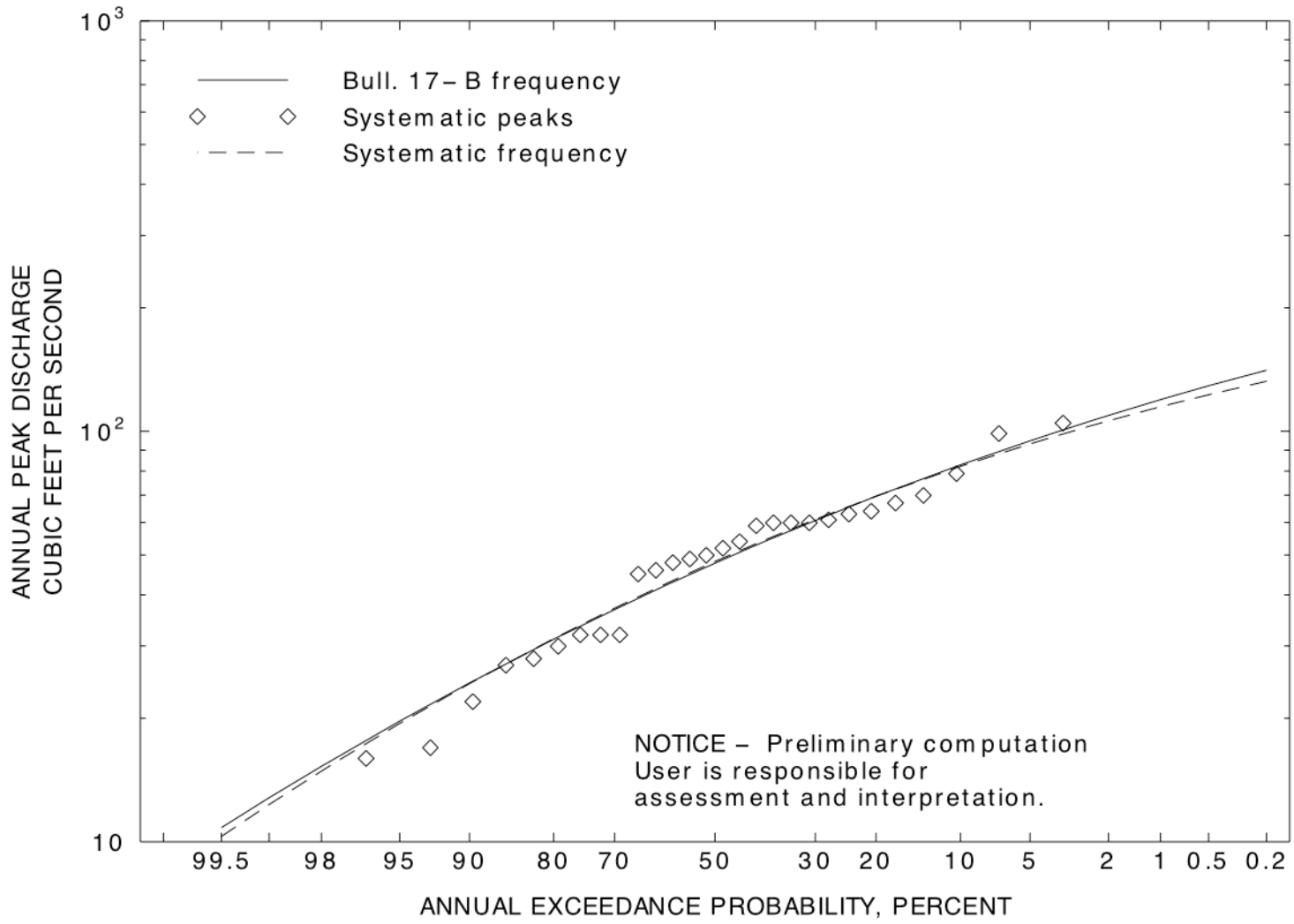
Explanation of peak discharge qualification codes

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
1985	105.0	0.0345	0.0345
1973	99.0	0.0690	0.0690
1966	79.0	0.1034	0.1034
1967	70.0	0.1379	0.1379
1962	67.0	0.1724	0.1724
1970	64.0	0.2069	0.2069
1969	63.0	0.2414	0.2414
1986	61.0	0.2759	0.2759
1960	60.0	0.3103	0.3103
1961	60.0	0.3448	0.3448
1972	60.0	0.3793	0.3793
1965	59.0	0.4138	0.4138
1981	54.0	0.4483	0.4483
1979	52.0	0.4828	0.4828
1976	50.0	0.5172	0.5172
1963	49.0	0.5517	0.5517
1983	48.0	0.5862	0.5862
1975	46.0	0.6207	0.6207
1980	45.0	0.6552	0.6552
1968	32.0	0.6897	0.6897
1982	32.0	0.7241	0.7241
1984	32.0	0.7586	0.7586
1987	30.0	0.7931	0.7931
1974	28.0	0.8276	0.8276
1971	27.0	0.8621	0.8621
1978	22.0	0.8966	0.8966
1964	17.0	0.9310	0.9310
1977	16.0	0.9655	0.9655



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