

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

Station - 04066300 COLE CREEK NEAR DUNBAR, WI
 2002 MAR 13 09:02:28

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

Number of peaks in record	=	22
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	22
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.145
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.		8.5
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	52.5

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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	1.3251	0.1626	0.394
BULL.17B ESTIMATE	0.0	1.0000	1.3251	0.1626	0.145

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	8.5	9.3	7.6	6.0	10.6
0.9900	9.2	9.9	8.5	6.7	11.3
0.9500	11.6	11.9	11.2	9.0	13.8
0.9000	13.2	13.3	12.8	10.6	15.4
0.8000	15.4	15.3	15.2	12.8	17.7
0.5000	20.9	20.6	20.9	18.3	24.0
0.2000	28.9	28.7	29.3	25.1	34.6
0.1000	34.3	34.6	35.3	29.4	42.9
0.0400	41.5	42.7	43.7	34.6	54.5
0.0200	46.9	49.2	50.7	38.4	64.0
0.0100	52.5	56.2	58.3	42.2	74.2
0.0050	58.3	63.6	66.8	46.0	85.1
0.0020	66.3	74.3	79.7	51.1	100.7
0.6667	17.9	(1.50-year flood)			
0.4292	22.4	(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	56.0		1971	20.0	
1961	21.0		1972	18.0	
1962	22.0		1973	24.0	
1963	24.0		1974	20.0	
1964	14.0		1975	21.0	
1965	24.0		1976	17.0	
1966	12.0		1977	15.0	
1967	27.0		1978	15.0	
1968	10.0		1979	30.0	
1969	24.0		1980	20.0	
1970	35.0		1981	30.0	

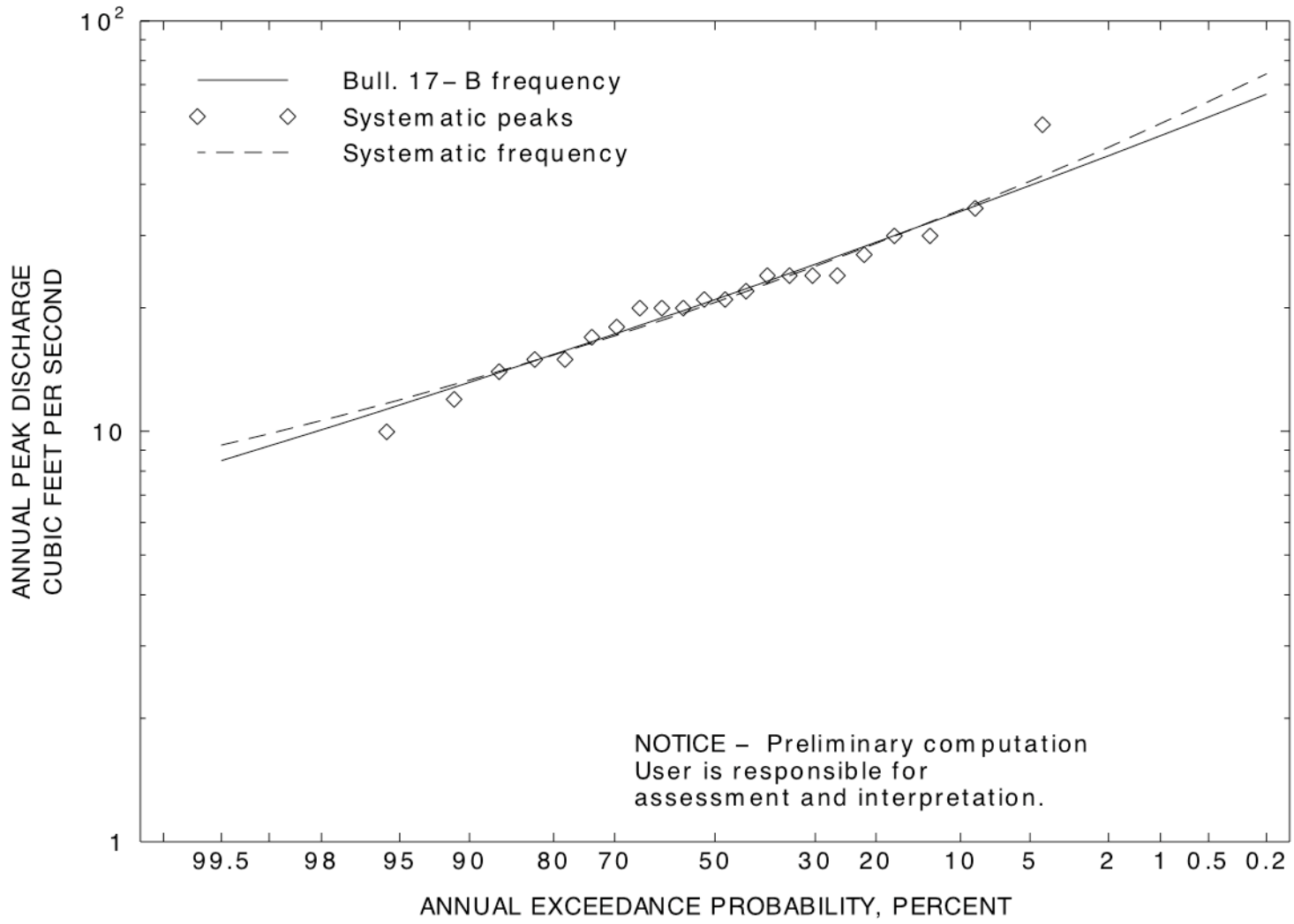
Explanation of peak discharge qualification codes

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
1960	56.0	0.0435	0.0435
1970	35.0	0.0870	0.0870
1979	30.0	0.1304	0.1304
1981	30.0	0.1739	0.1739
1967	27.0	0.2174	0.2174
1963	24.0	0.2609	0.2609
1965	24.0	0.3043	0.3043
1969	24.0	0.3478	0.3478
1973	24.0	0.3913	0.3913
1962	22.0	0.4348	0.4348
1961	21.0	0.4783	0.4783
1975	21.0	0.5217	0.5217
1971	20.0	0.5652	0.5652
1974	20.0	0.6087	0.6087
1980	20.0	0.6522	0.6522
1972	18.0	0.6957	0.6957
1976	17.0	0.7391	0.7391
1977	15.0	0.7826	0.7826
1978	15.0	0.8261	0.8261
1964	14.0	0.8696	0.8696
1966	12.0	0.9130	0.9130
1968	10.0	0.9565	0.9565



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ANNUAL EXCEEDANCE PROBABILITY, PERCENT
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