

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

Station - 05400025 JOHNSON CREEK NEAR KNOWLTON, 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	=	27
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	27
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.285
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	550.0
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.	6	550.0
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	3056.3
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		365.9

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE	LOGARITHMIC		
	EXCEEDANCE DISCHARGE	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	550.0	0.7778	2.9630	0.2073
BULL.17B ESTIMATE	550.0	0.7778	2.9630	0.2073

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY'	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
				LOWER	UPPER
0.5000	891.9	843.3	891.9	762.3	1040.0
0.2000	1358.0	1311.0	1379.0	1157.0	1663.0
0.1000	1720.0	1742.0	1777.0	1434.0	2211.0
0.0400	2244.0	2461.0	2387.0	1808.0	3072.0
0.0200	2683.0	3151.0	2938.0	2106.0	3846.0
0.0100	3168.0	4002.0	3587.0	2423.0	4745.0
0.0050	3703.0	5050.0	4363.0	2762.0	5786.0
0.0020	4498.0	6818.0	5633.0	3249.0	7416.0
0.6667	731.6	(1.50-year flood)			
0.4292	969.6	(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
1973	820.0		1987	820.0	
1974	375.0		1988	460.0	
1975	980.0		1989	680.0	
1976	980.0		1990	1000.0	
1977	550.0	L	1991	610.0	
1978	1800.0		1992	380.0	
1979	2000.0		1993	910.0	
1980	3700.0		1994	1850.0	
1981	1080.0		1995	640.0	
1982	1200.0		1996	1250.0	
1983	940.0		1997	540.0	
1984	960.0		1998	715.0	
1985	700.0		2000	370.0	
1986	1150.0				

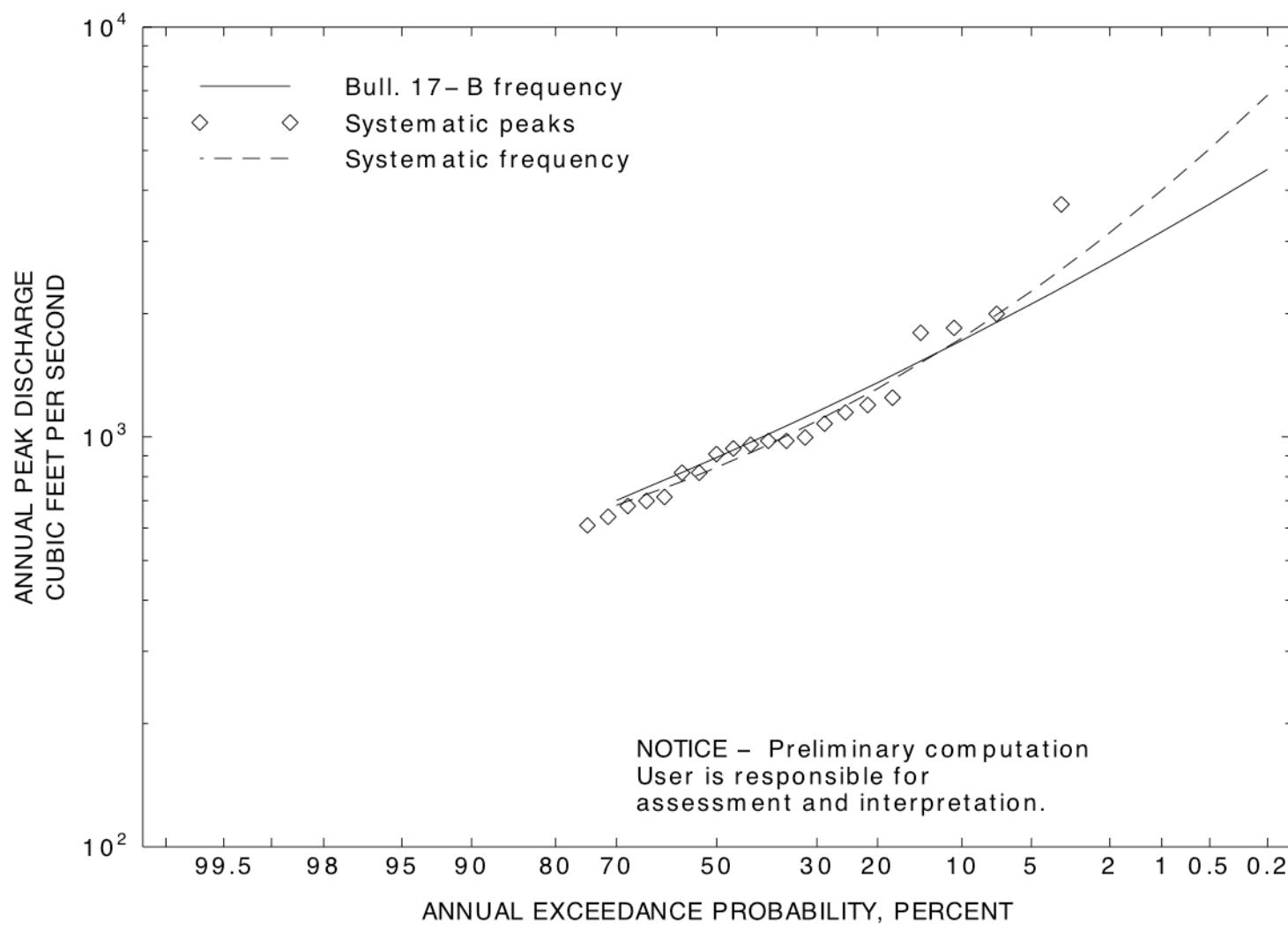
Explanation of peak discharge qualification codes

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
1980	3700.0	0.0357	0.0357
1979	2000.0	0.0714	0.0714
1994	1850.0	0.1071	0.1071
1978	1800.0	0.1429	0.1429
1996	1250.0	0.1786	0.1786
1982	1200.0	0.2143	0.2143
1986	1150.0	0.2500	0.2500
1981	1080.0	0.2857	0.2857
1990	1000.0	0.3214	0.3214
1975	980.0	0.3571	0.3571
1976	980.0	0.3929	0.3929
1984	960.0	0.4286	0.4286
1983	940.0	0.4643	0.4643
1993	910.0	0.5000	0.5000
1973	820.0	0.5357	0.5357
1987	820.0	0.5714	0.5714
1998	715.0	0.6071	0.6071
1985	700.0	0.6429	0.6429
1989	680.0	0.6786	0.6786
1995	640.0	0.7143	0.7143
1991	610.0	0.7500	0.7500
1977	550.0	--	--
1997	540.0	--	--
1988	460.0	--	--
1992	380.0	--	--
1974	375.0	--	--
2000	370.0	--	--



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