

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

Station - 040734644 SILVER CREEK AT SOUTH KORO ROAD NEAR RIPON, WI
2002 MAR 13 09:02:33

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

Number of peaks in record	=	10
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	10
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.365
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
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		549.3
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		78.7
**WCF233W-EXPECTED PROB OUT OF RANGE AT TAB PROB.	0.00003	0.00200
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

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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	2.3178	0.2073	1.309
BULL.17B ESTIMATE	0.0	1.0000	2.3178	0.2073	0.118

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	64.1	105.7	45.1	28.6	94.9
0.9900	71.4	107.7	54.4	33.9	103.2
0.9500	96.4	117.1	85.2	54.1	130.9
0.9000	113.5	125.2	105.2	69.3	150.0
0.8000	138.8	139.4	133.5	93.2	179.1
0.5000	205.9	187.9	205.9	157.0	269.2
0.2000	309.7	292.8	323.0	240.1	460.0
0.1000	385.4	393.8	419.8	291.1	634.8
0.0400	488.6	569.0	575.6	353.8	913.1
0.0200	570.8	743.3	726.4	400.2	1164.0
0.0100	657.5	964.7	918.7	446.6	1455.0
0.0050	749.3	1246.0	1170.0	493.7	1791.0
0.0020	879.3	1737.0	--	557.4	2312.0
0.6667	168.0	(1.50-year flood)			
0.4292	224.1	(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
1987	137.0		1992	193.0	
1988	145.0		1993	426.0	
1989	545.0		1994	218.0	
1990	198.0		1995	168.0	
1991	129.0		1996	181.0	

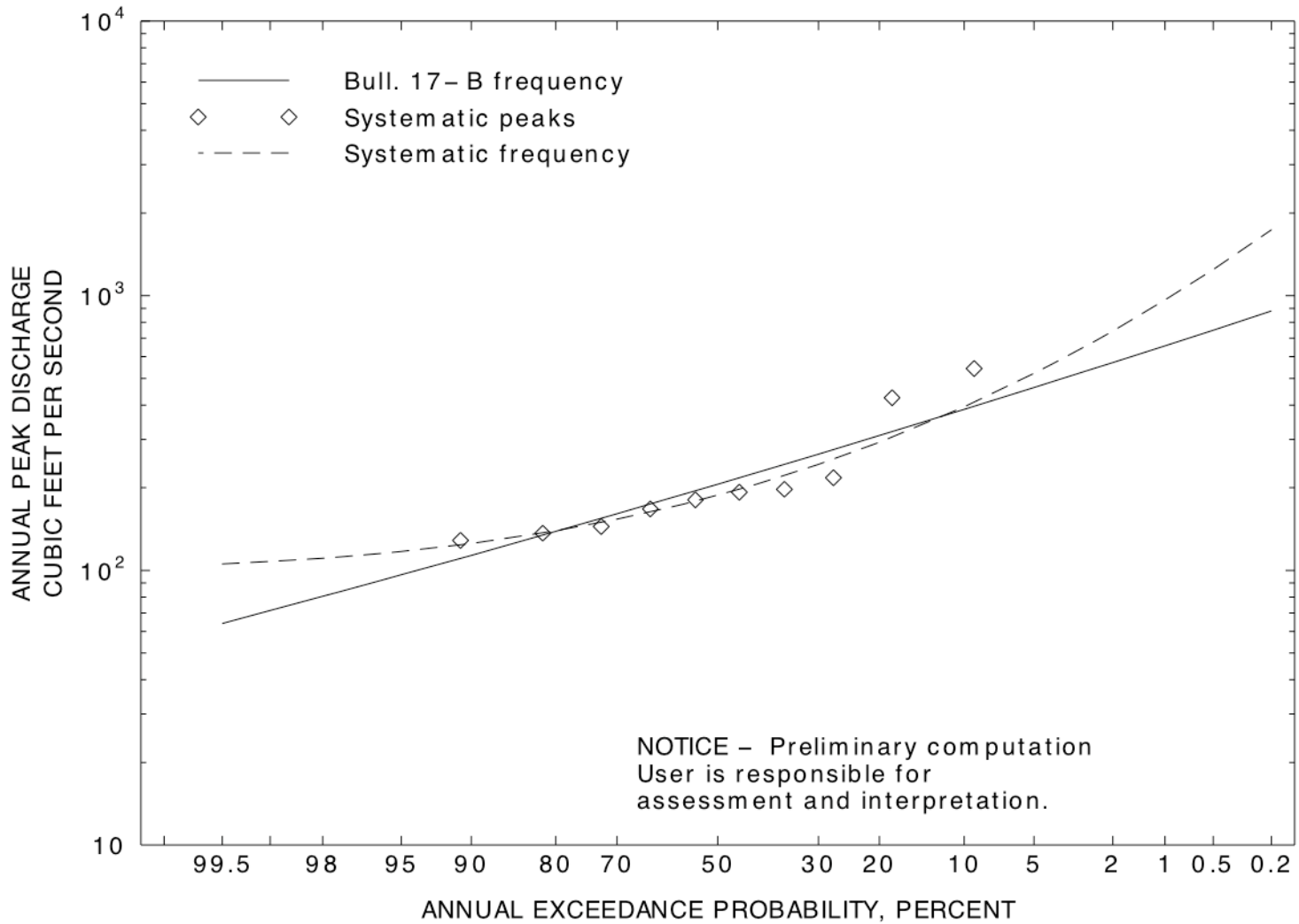
Explanation of peak discharge qualification codes

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
1989	545.0	0.0909	0.0909
1993	426.0	0.1818	0.1818
1994	218.0	0.2727	0.2727
1990	198.0	0.3636	0.3636
1992	193.0	0.4545	0.4545
1996	181.0	0.5455	0.5455
1995	168.0	0.6364	0.6364
1988	145.0	0.7273	0.7273
1987	137.0	0.8182	0.8182
1991	129.0	0.9091	0.9091



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