

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

Station - 05408500 KNAPP CREEK NEAR BLOOMINGDALE, WI
 2002 MAR 13 09:03:13

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

Number of peaks in record	=	16
Peaks not used in analysis	=	1
Systematic peaks in analysis	=	15
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.397
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. *****

**WCF109W-PEAKS WITH MINUS-FLAGGED DISCHARGES WERE BYPASSED.		1
**WCF113W-NUMBER OF SYSTEMATIC PEAKS HAS BEEN REDUCED TO NSYS	=	15
WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.		0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		75.4
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	3693.8
WCF002J-CALCS COMPLETED. RETURN CODE = 2		

Station - 05408500 KNAPP CREEK NEAR BLOOMINGDALE, WI
 2002 MAR 13 09:03:13

ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.7224	0.3761	0.185
BULL.17B ESTIMATE	0.0	1.0000	2.7224	0.3761	-0.122

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	51.4	65.9	31.7	16.4	97.5
0.9900	65.2	79.3	45.1	23.0	118.0
0.9500	123.3	133.1	104.8	56.1	198.7
0.9000	172.1	177.2	155.9	88.4	263.6
0.8000	256.0	252.9	243.7	149.6	375.5
0.5000	537.0	513.8	537.0	365.4	792.4
0.2000	1099.0	1084.0	1150.0	748.8	1887.0
0.1000	1582.0	1626.0	1728.0	1036.0	3056.0
0.0400	2316.0	2536.0	2718.0	1432.0	5144.0
0.0200	2952.0	3401.0	3697.0	1749.0	7202.0
0.0100	3661.0	4448.0	4939.0	2084.0	9735.0
0.0050	4448.0	5708.0	6529.0	2438.0	12810.0
0.0020	5617.0	7757.0	9332.0	2937.0	17820.0
0.6667	368.8	(1.50-year flood)			
0.4292	626.9	(2.33-year flood)			

Station - 05408500 KNAPP CREEK NEAR BLOOMINGDALE, WI
2002 MAR 13 09:03:13

I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1954	-99999.0		1962	533.0	
1955	1030.0		1963	347.0	
1956	401.0		1964	136.0	
1957	402.0		1965	614.0	
1958	140.0		1966	749.0	
1959	3710.0		1967	898.0	
1960	734.0		1968	790.0	
1961	825.0		1969	160.0	

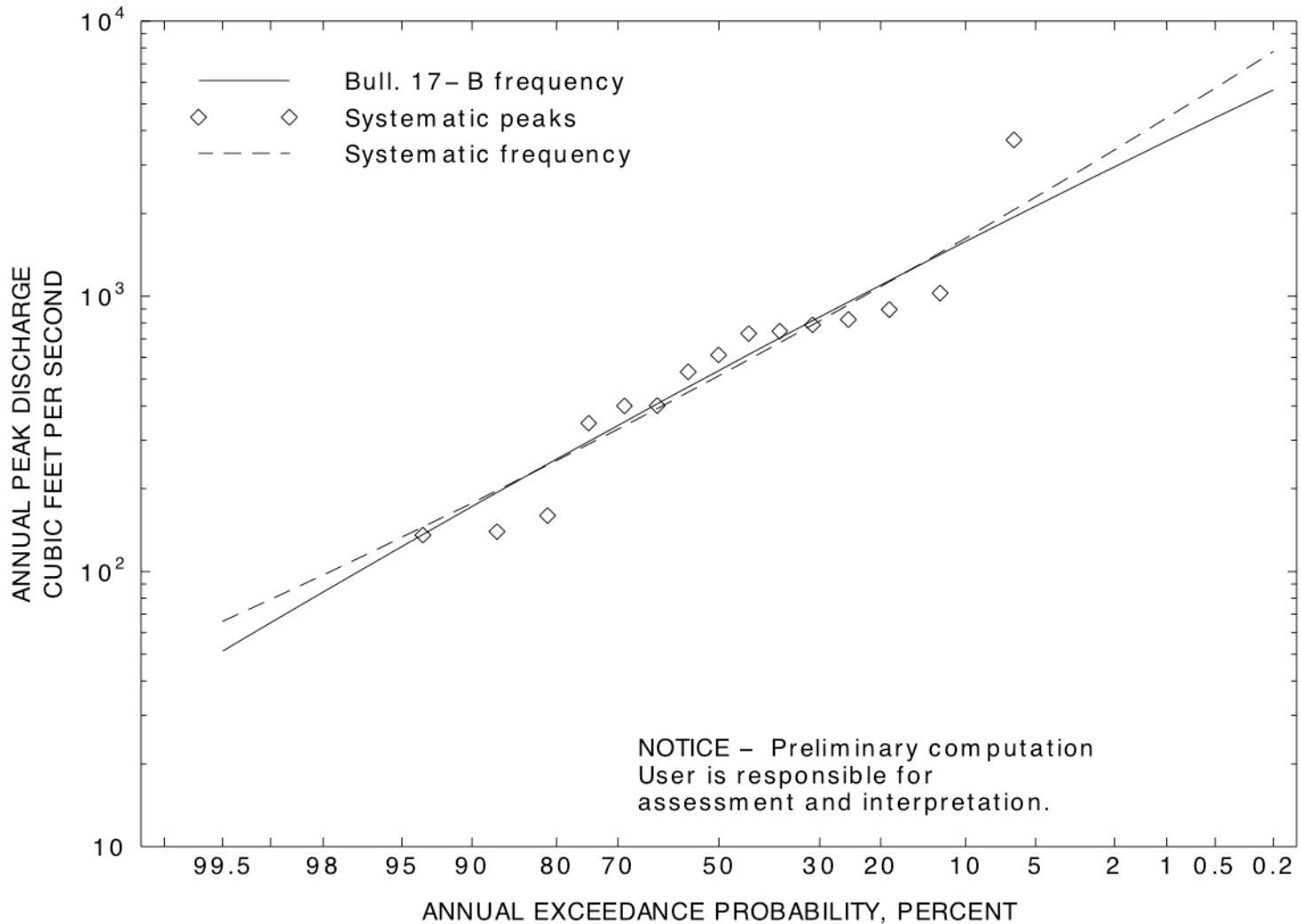
Explanation of peak discharge qualification codes

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

Station - 05408500 KNAPP CREEK NEAR BLOOMINGDALE, WI
2002 MAR 13 09:03:13

EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1959	3710.0	0.0625	0.0625
1955	1030.0	0.1250	0.1250
1967	898.0	0.1875	0.1875
1961	825.0	0.2500	0.2500
1968	790.0	0.3125	0.3125
1966	749.0	0.3750	0.3750
1960	734.0	0.4375	0.4375
1965	614.0	0.5000	0.5000
1962	533.0	0.5625	0.5625
1957	402.0	0.6250	0.6250
1956	401.0	0.6875	0.6875
1963	347.0	0.7500	0.7500
1969	160.0	0.8125	0.8125
1958	140.0	0.8750	0.8750
1964	136.0	0.9375	0.9375
1954	-99999.0	--	--



NOTICE - Preliminary computation
 User is responsible for
 assessment and interpretation.

Station - 05408500 KNAPP CREEK NEAR BLOOMINGDALE, WI
 2002 MAR 13 09:03:13