

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

Station - 05359600 PRICE CREEK NEAR PHILLIPS, WI  
2002 MAR 13 09:02:50

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

Number of peaks in record	=	43
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	43
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.210
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	70.0
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	70.0
WCF162I-SYSTEMATIC PEAKS EXCEEDED HIGH-OUTLIER CRITERION.	1	474.4
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		55.4

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE	LOGARITHMIC		
	EXCEEDANCE DISCHARGE	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	70.0	0.8605	2.1749	0.1873
BULL.17B ESTIMATE	70.0	0.8605	2.1749	0.1873

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	
			ESTIMATE	LOWER	UPPER
0.8000	103.4	103.5	102.7	89.7	116.3
0.5000	144.8	140.5	144.8	129.5	161.5
0.2000	212.3	208.6	214.3	189.1	244.1
0.1000	264.4	266.5	269.4	231.3	313.8
0.0400	339.1	356.8	351.5	288.9	420.3
0.0200	401.5	438.2	423.3	335.1	513.7
0.0100	470.1	533.6	505.3	384.5	620.3
0.0050	545.7	645.2	600.2	437.5	741.8
0.0020	657.7	822.9	748.7	514.0	928.9
0.6667	121.3	( 1.50-year flood )			
0.4292	156.1	( 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
1958	235.0		1980	118.0	
1959	400.0		1981	130.0	
1960	165.0		1982	265.0	
1961	90.0		1983	145.0	
1962	70.0		1984	135.0	
1963	98.0		1985	177.0	
1964	70.0		1986	245.0	
1965	178.0		1987	70.0	L
1966	112.0		1988	70.0	L
1967	120.0		1989	70.0	L
1968	130.0		1990	125.0	
1969	125.0		1991	115.0	
1970	142.0		1992	133.0	
1971	183.0		1993	190.0	
1972	175.0		1994	552.0	
1973	155.0		1995	87.0	
1974	120.0		1996	328.0	
1975	190.0		1997	229.0	
1976	225.0		1998	151.0	
1977	160.0		1999	100.0	
1978	130.0		2000	59.0	L
1979	215.0				

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
1994	552.0	0.0227	0.0227
1959	400.0	0.0455	0.0455
1996	328.0	0.0682	0.0682
1982	265.0	0.0909	0.0909
1986	245.0	0.1136	0.1136
1958	235.0	0.1364	0.1364
1997	229.0	0.1591	0.1591
1976	225.0	0.1818	0.1818
1979	215.0	0.2045	0.2045
1975	190.0	0.2273	0.2273
1993	190.0	0.2500	0.2500
1971	183.0	0.2727	0.2727
1965	178.0	0.2955	0.2955
1985	177.0	0.3182	0.3182
1972	175.0	0.3409	0.3409
1960	165.0	0.3636	0.3636
1977	160.0	0.3864	0.3864
1973	155.0	0.4091	0.4091
1998	151.0	0.4318	0.4318
1983	145.0	0.4545	0.4545
1970	142.0	0.4773	0.4773
1984	135.0	0.5000	0.5000
1992	133.0	0.5227	0.5227
1968	130.0	0.5455	0.5455
1978	130.0	0.5682	0.5682
1981	130.0	0.5909	0.5909
1969	125.0	0.6136	0.6136
1990	125.0	0.6364	0.6364
1967	120.0	0.6591	0.6591
1974	120.0	0.6818	0.6818
1980	118.0	0.7045	0.7045
1991	115.0	0.7273	0.7273
1966	112.0	0.7500	0.7500
1999	100.0	0.7727	0.7727
1963	98.0	0.7955	0.7955
1961	90.0	0.8182	0.8182
1995	87.0	0.8409	0.8409
1962	70.0	--	--
1964	70.0	--	--
1987	70.0	--	--
1988	70.0	--	--
1989	70.0	--	--
2000	59.0	--	--

