

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

Station - 05395020 LLOYD CREEK NEAR DOERING, WI
 2002 MAR 13 09:03:04

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

| | | |
|--------------------------------------|---|----------|
| Number of peaks in record | = | 31 |
| Peaks not used in analysis | = | 0 |
| Systematic peaks in analysis | = | 31 |
| Historic peaks in analysis | = | 0 |
| Years of historic record | = | 0 |
| Generalized skew | = | -0.214 |
| 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. | 79.0 |
| WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE. | 1079.8 |

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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 | 2.4654 | 0.2204 | -0.144 |
| BULL.17B ESTIMATE | 0.0 | 1.0000 | 2.4654 | 0.2204 | -0.170 |

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 | 72.9 | 73.8 | 64.1 | 48.3 | 96.3 |
| 0.9900 | 84.2 | 85.0 | 76.3 | 57.9 | 108.9 |
| 0.9500 | 123.7 | 124.2 | 118.3 | 93.0 | 151.8 |
| 0.9000 | 151.1 | 151.3 | 147.0 | 118.4 | 181.1 |
| 0.8000 | 191.4 | 191.2 | 188.8 | 156.7 | 224.6 |
| 0.5000 | 296.2 | 295.5 | 296.2 | 254.2 | 345.6 |
| 0.2000 | 449.2 | 449.0 | 454.7 | 382.6 | 549.3 |
| 0.1000 | 554.0 | 554.9 | 567.1 | 463.1 | 704.0 |
| 0.0400 | 688.7 | 692.0 | 717.9 | 561.4 | 916.3 |
| 0.0200 | 790.2 | 795.8 | 836.7 | 632.6 | 1084.0 |
| 0.0100 | 892.2 | 900.8 | 961.7 | 702.3 | 1260.0 |
| 0.0050 | 995.3 | 1008.0 | 1094.0 | 771.2 | 1442.0 |
| 0.0020 | 1134.0 | 1152.0 | 1282.0 | 861.7 | 1696.0 |
| 0.6667 | 237.5 | (1.50-year flood) | | | |
| 0.4292 | 324.3 | (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 |
|------------|-----------|-------|------------|-----------|-------|
| 1970 | 270.0 | | 1986 | 610.0 | |
| 1971 | 360.0 | | 1987 | 552.0 | |
| 1972 | 330.0 | | 1988 | 265.0 | |
| 1973 | 265.0 | | 1989 | 104.0 | |
| 1974 | 132.0 | | 1990 | 1000.0 | |
| 1975 | 170.0 | | 1991 | 310.0 | |
| 1976 | 318.0 | | 1992 | 267.0 | |
| 1977 | 90.0 | | 1993 | 380.0 | |
| 1978 | 310.0 | | 1994 | 142.0 | |
| 1979 | 650.0 | | 1995 | 249.0 | |
| 1980 | 302.0 | | 1996 | 285.0 | |
| 1981 | 335.0 | | 1997 | 270.0 | |
| 1982 | 250.0 | | 1998 | 260.0 | |
| 1983 | 310.0 | | 1999 | 437.0 | |
| 1984 | 305.0 | | 2000 | 480.0 | |
| 1985 | 234.0 | | | | |

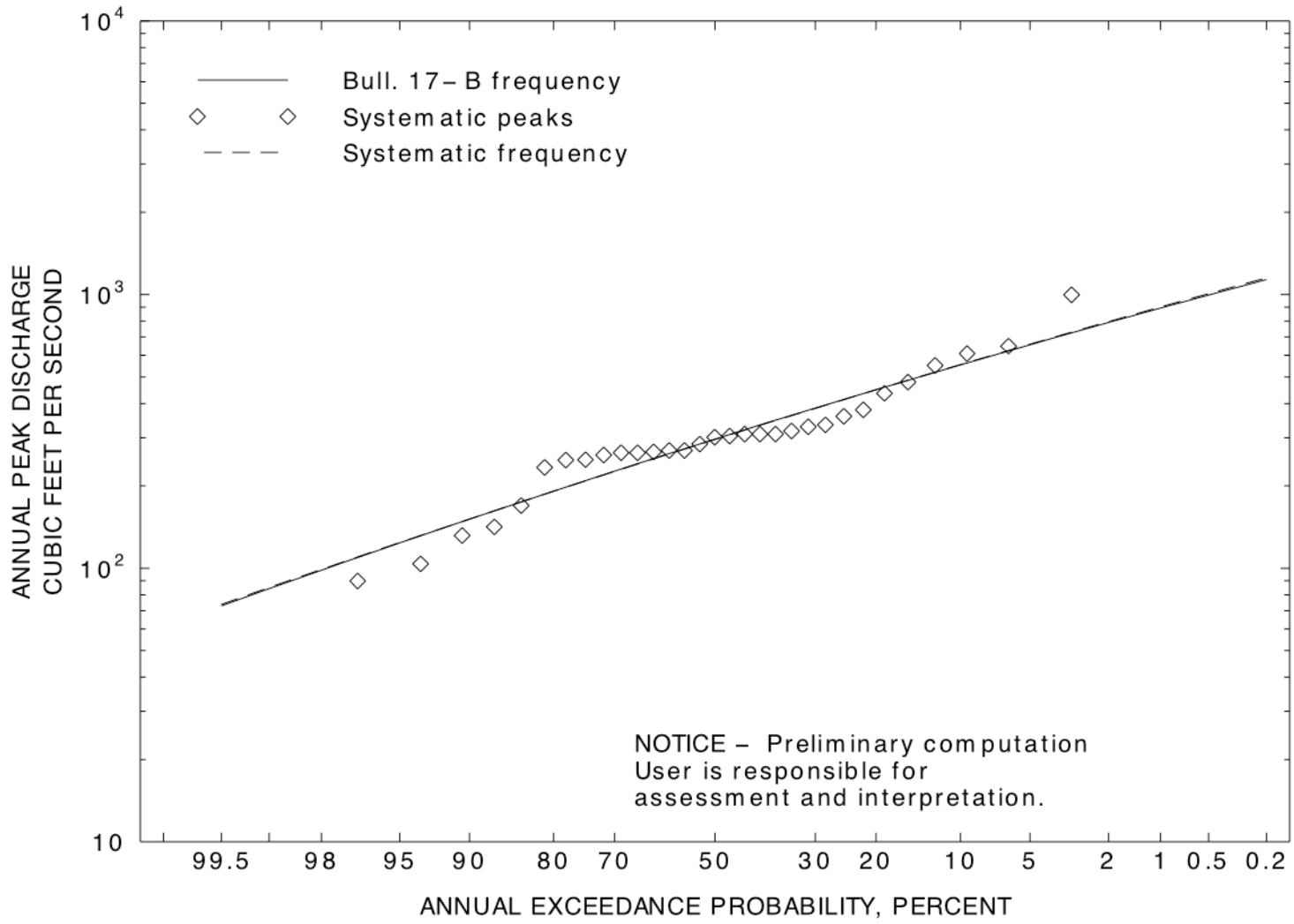
Explanation of peak discharge qualification codes

| 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 |
|---------------|---------------------|----------------------|----------------------|
| 1990 | 1000.0 | 0.0312 | 0.0312 |
| 1979 | 650.0 | 0.0625 | 0.0625 |
| 1986 | 610.0 | 0.0938 | 0.0938 |
| 1987 | 552.0 | 0.1250 | 0.1250 |
| 2000 | 480.0 | 0.1562 | 0.1562 |
| 1999 | 437.0 | 0.1875 | 0.1875 |
| 1993 | 380.0 | 0.2188 | 0.2188 |
| 1971 | 360.0 | 0.2500 | 0.2500 |
| 1981 | 335.0 | 0.2812 | 0.2812 |
| 1972 | 330.0 | 0.3125 | 0.3125 |
| 1976 | 318.0 | 0.3438 | 0.3438 |
| 1978 | 310.0 | 0.3750 | 0.3750 |
| 1983 | 310.0 | 0.4062 | 0.4062 |
| 1991 | 310.0 | 0.4375 | 0.4375 |
| 1984 | 305.0 | 0.4688 | 0.4688 |
| 1980 | 302.0 | 0.5000 | 0.5000 |
| 1996 | 285.0 | 0.5312 | 0.5312 |
| 1970 | 270.0 | 0.5625 | 0.5625 |
| 1997 | 270.0 | 0.5938 | 0.5938 |
| 1992 | 267.0 | 0.6250 | 0.6250 |
| 1973 | 265.0 | 0.6562 | 0.6562 |
| 1988 | 265.0 | 0.6875 | 0.6875 |
| 1998 | 260.0 | 0.7188 | 0.7188 |
| 1982 | 250.0 | 0.7500 | 0.7500 |
| 1995 | 249.0 | 0.7812 | 0.7812 |
| 1985 | 234.0 | 0.8125 | 0.8125 |
| 1975 | 170.0 | 0.8438 | 0.8438 |
| 1994 | 142.0 | 0.8750 | 0.8750 |
| 1974 | 132.0 | 0.9062 | 0.9062 |
| 1989 | 104.0 | 0.9375 | 0.9375 |
| 1977 | 90.0 | 0.9688 | 0.9688 |



NOTICE - Preliminary computation
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ANNUAL EXCEEDANCE PROBABILITY, PERCENT
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