

## Appendix F

### Climate data for Senachwine Creek Watershed

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Monthly totals of number of days of measureable precipitation from year 1940 to 2008

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1940 | -99 | -99 | -99 | -99 | -99 | -99 | 5   | 10  | 2   | 5   | 8   | 6   | -99    |
| 1941 | 11  | 7   | 8   | 13  | 9   | 10  | 3   | 7   | 9   | 17  | 6   | 6   | 106    |
| 1942 | 4   | 10  | 10  | 8   | 13  | 13  | 11  | 8   | 10  | 8   | 11  | 9   | 115    |
| 1943 | 13  | 4   | 5   | 13  | 15  | 11  | 5   | 6   | 5   | 3   | 4   | 3   | 87     |
| 1944 | 5   | 7   | 10  | 13  | 13  | 5   | 6   | 7   | 11  | 2   | 10  | 6   | 95     |
| 1945 | 6   | 5   | 12  | 13  | 17  | 16  | 8   | 6   | 16  | 5   | 11  | 9   | 124    |
| 1946 | 11  | 5   | 18  | 7   | 21  | 13  | 5   | 9   | 6   | 9   | 8   | 8   | 120    |
| 1947 | 11  | 4   | 9   | 13  | 17  | 15  | 7   | 7   | 6   | 6   | 10  | 7   | 112    |
| 1948 | 9   | 9   | 15  | 6   | 10  | 12  | 13  | 6   | 9   | 5   | 11  | 10  | 115    |
| 1949 | 12  | 11  | 7   | 13  | 11  | 10  | 13  | 7   | 7   | 10  | 7   | 10  | 118    |
| 1950 | 11  | 12  | 13  | 13  | 6   | 13  | 11  | 5   | 11  | 5   | 8   | 10  | 118    |
| 1951 | 10  | 18  | 13  | 17  | 14  | 14  | 13  | 9   | 11  | 11  | 8   | 10  | 148    |
| 1952 | 12  | 8   | 13  | 8   | 17  | 11  | 8   | 9   | -99 | 1   | 4   | 10  | 101    |
| 1953 | 11  | 8   | 14  | 13  | 14  | 10  | 10  | 4   | 8   | 3   | 6   | 8   | 109    |
| 1954 | 5   | 7   | 9   | 11  | 6   | 9   | 6   | 15  | 5   | 10  | 12  | 7   | 102    |
| 1955 | 12  | 8   | 6   | 10  | 13  | 10  | 5   | 4   | 10  | 9   | 9   | 4   | 100    |
| 1956 | 6   | 10  | 6   | 11  | 10  | 8   | 9   | 12  | 7   | 2   | 5   | 12  | 98     |
| 1957 | 10  | 7   | 7   | 21  | -99 | 11  | 8   | 8   | 5   | 5   | 8   | 10  | 100    |
| 1958 | 5   | 3   | 3   | 11  | 5   | 16  | 11  | 8   | 8   | 5   | 14  | 3   | 92     |
| 1959 | 7   | 10  | 8   | 8   | 11  | 5   | -99 | 8   | 10  | 11  | 7   | 10  | 98     |
| 1960 | 5   | 9   | 9   | 11  | 16  | 18  | 7   | 8   | 4   | 4   | 8   | 4   | 103    |
| 1961 | 5   | 4   | 11  | 12  | 9   | 6   | 12  | 6   | 13  | 10  | 9   | 11  | 108    |
| 1962 | 9   | 8   | 8   | 6   | 8   | 5   | 9   | 3   | 6   | 9   | 4   | 4   | 79     |
| 1963 | 10  | 6   | 14  | 8   | 9   | 3   | 7   | 10  | 6   | 4   | 10  | 6   | 93     |
| 1964 | 5   | 6   | 12  | 14  | 7   | 9   | 12  | 5   | 7   | 1   | 7   | 8   | 93     |
| 1965 | 10  | 5   | 12  | 12  | -99 | 2   | 5   | 13  | 12  | 10  | 7   | 8   | 96     |
| 1966 | 2   | 5   | 10  | 12  | 9   | 8   | 3   | -99 | 8   | 5   | 10  | 8   | 82     |
| 1967 | 4   | 4   | 10  | 15  | 9   | 7   | 9   | 8   | 7   | 13  | 7   | 12  | 105    |
| 1968 | 6   | 4   | 5   | 7   | 11  | 6   | 6   | 4   | 11  | 3   | 9   | 5   | 77     |
| 1969 | 12  | 4   | 4   | 11  | 10  | 12  | 11  | 2   | 9   | 8   | 7   | 8   | 98     |
| 1970 | 7   | 3   | 9   | 11  | 14  | 8   | 7   | 10  | 11  | 9   | 5   | 6   | 100    |
| 1971 | 4   | 7   | 8   | 4   | 7   | 4   | 8   | 4   | 6   | 8   | 8   | -99 | 74     |
| 1972 | -99 | 4   | 8   | 11  | 10  | 9   | 9   | 14  | 12  | 9   | 8   | 8   | 102    |
| 1973 | 5   | 8   | 17  | 11  | 12  | 9   | 12  | 7   | 12  | 10  | 7   | 12  | 122    |
| 1974 | 10  | 4   | 11  | 8   | 17  | 11  | 4   | 4   | 5   | 9   | 11  | 11  | 105    |
| 1975 | 11  | 10  | 8   | 10  | 13  | 11  | 11  | 12  | 6   | 5   | 8   | 5   | 110    |
| 1976 | 5   | 8   | 13  | 9   | 10  | 3   | 7   | 5   | 3   | 8   | 2   | 3   | 76     |
| 1977 | 7   | 4   | 8   | 9   | 7   | 6   | 6   | 15  | 11  | 9   | 11  | 7   | 100    |
| 1978 | 5   | 3   | 5   | 13  | 13  | 9   | 10  | 8   | 6   | 7   | 8   | 7   | 94     |
| 1979 | 9   | 5   | 12  | 13  | 5   | 7   | 7   | 8   | 0   | 7   | 6   | 6   | 85     |
| 1980 | 6   | 9   | 7   | 11  | 10  | 9   | 6   | 13  | 9   | 5   | 6   | 7   | 98     |
| 1981 | 3   | 7   | 4   | 11  | 11  | 15  | 8   | 10  | 6   | 6   | 7   | 4   | 92     |
| 1982 | 8   | 6   | 11  | 3   | 12  | 14  | 8   | 8   | 5   | 3   | 11  | 8   | 97     |
| 1983 | 3   | 4   | 5   | -99 | 11  | 7   | 2   | 4   | 9   | 6   | 9   | 13  | 73     |
| 1984 | 5   | 6   | 12  | -99 | 9   | -99 | -99 | -99 | -99 | -99 | 4   | -99 | -99    |

-99 = missing

# Appendix F

Monthly totals of number of days of measureable precipitation from year 1940 to 2008 (concluded)

| Year    | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1985    | 8   | 6   | 10  | 5   | 8   | 10  | 13  | 8   | 7   | 12  | 16  | 9   | 112    |
| 1986    | 3   | 9   | 5   | 7   | 13  | 8   | 7   | 6   | 10  | 9   | 5   | 3   | 85     |
| 1987    | 6   | 0   | 7   | 6   | 8   | 10  | 7   | 11  | 5   | 3   | 9   | 8   | 80     |
| 1988    | 7   | 5   | 5   | 5   | 6   | 3   | 3   | 6   | 9   | 7   | 10  | 7   | 73     |
| 1989    | 6   | 6   | 2   | 6   | 10  | 7   | 9   | 9   | 7   | 4   | 3   | 6   | 75     |
| 1990    | 5   | 7   | 9   | 10  | 15  | 9   | 9   | 10  | 5   | 5   | 6   | 6   | 96     |
| 1991    | 4   | 3   | 10  | 7   | 10  | 5   | 4   | 7   | 7   | 11  | 11  | 5   | 84     |
| 1992    | 5   | 3   | 7   | 7   | 4   | 6   | 17  | 4   | 9   | 3   | 12  | 7   | 84     |
| 1993    | 7   | 5   | -99 | 11  | 8   | 11  | 15  | 13  | 7   | 4   | 7   | 7   | 100    |
| 1994    | 11  | 7   | 2   | 8   | 4   | 9   | 7   | 10  | 5   | 4   | 10  | 5   | 82     |
| 1995    | 9   | 2   | 7   | 13  | 12  | 7   | 5   | 9   | 4   | 10  | 3   | 3   | 84     |
| 1996    | 3   | 3   | 7   | 9   | 17  | 10  | 10  | 2   | 4   | 7   | 6   | 8   | 86     |
| 1997    | 10  | 7   | 4   | 8   | 8   | 8   | 6   | 10  | 8   | 8   | 7   | 8   | 92     |
| 1998    | 11  | 8   | 17  | 13  | 11  | 16  | 4   | 6   | 8   | 11  | 7   | 3   | 115    |
| 1999    | 6   | 4   | 4   | 12  | 9   | 9   | 3   | 5   | 4   | 5   | 2   | 12  | 75     |
| 2000    | 5   | 6   | 8   | 9   | 14  | 16  | 7   | 8   | 9   | 7   | 7   | 10  | 106    |
| 2001    | 8   | 10  | 7   | 15  | 16  | 8   | 6   | 9   | 10  | 10  | 8   | 9   | 116    |
| 2002    | 5   | 8   | 9   | 13  | 13  | 10  | 6   | 8   | 6   | 10  | 8   | 3   | 99     |
| 2003    | 6   | 6   | 6   | 9   | 11  | 11  | 8   | 5   | 7   | 7   | 9   | 9   | 94     |
| 2004    | 5   | 5   | 10  | 3   | 15  | 8   | 7   | 12  | 1   | 12  | 11  | 6   | 95     |
| 2005    | 14  | 10  | 5   | 11  | 5   | 6   | 4   | 8   | 10  | 5   | 7   | -99 | 92     |
| 2006    | 9   | 4   | 12  | 11  | 13  | 7   | 8   | 13  | 9   | 9   | 7   | 7   | 109    |
| 2007    | 9   | 6   | 11  | 7   | 6   | 8   | 9   | 11  | 4   | 8   | -99 | -99 | 95     |
| 2008    | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99 | -99    |
|         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| Average | 7   | 6   | 8   | 10  | 10  | 9   | 7   | 7   | 7   | 7   | 7   | 7   | 97     |

-99 = missing

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Monthly totals of accumulated snowfall (inches) from year 1940 to 2008

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1940 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1941 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1942 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1943 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1944 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1945 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1946 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1947 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9   |
| 1948 | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.6  | -9.9   |
| 1949 | 2.0  | 3.0  | 0.1  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.9  | 8.4    |
| 1950 | 3.0  | 14.0 | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 7.0  | 28.0   |
| 1951 | 5.3  | 5.4  | 7.5  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.2  | 15.5 | 40.9   |
| 1952 | 3.1  | 7.0  | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -9.9 | 0.0  | 0.0  | 1.8  | -9.9   |
| 1953 | 4.5  | 2.2  | 2.8  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 4.1  | 16.1   |
| 1954 | 0.4  | 2.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 9.6  | 18.1   |
| 1955 | 4.6  | 3.8  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 1.3  | 16.9   |
| 1956 | 1.9  | 5.6  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 5.3  | 16.0   |
| 1957 | 11.5 | 0.2  | 6.8  | 2.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 25.8   |
| 1958 | 6.8  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 3.0  | 12.2   |
| 1959 | 12.2 | 1.7  | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -9.9 | 2.3  | -9.9   |
| 1960 | 3.9  | 8.8  | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.9  | 27.6   |
| 1961 | 3.6  | 4.0  | 0.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | -9.9   |
| 1962 | 7.5  | 9.4  | 1.5  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 23.4   |
| 1963 | 8.5  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 7.2  | 22.3   |
| 1964 | 6.0  | 3.6  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 8.0  | 23.2   |
| 1965 | 4.9  | 7.8  | 12.1 | 0.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.8   |
| 1966 | 0.0  | 0.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | -9.9   |
| 1967 | 11.0 | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 2.0  | 15.5   |
| 1968 | 7.0  | 1.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 10.0   |
| 1969 | 2.5  | 1.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 11.0 | 17.0   |
| 1970 | 6.0  | 4.5  | 7.5  | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 25.0   |
| 1971 | 6.5  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | -9.9 | -9.9   |
| 1972 | -9.9 | 0.0  | 7.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 4.0  | -9.9   |
| 1973 | 1.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.6 | 18.6   |
| 1974 | 7.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.0  | 6.0  | 18.4   |
| 1975 | 10.0 | 7.5  | 3.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.0  | 2.0  | 29.5   |
| 1976 | 4.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 8.0    |
| 1977 | 11.0 | 3.0  | 2.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 15.0 | 37.0   |
| 1978 | 9.5  | 5.0  | 5.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 11.5 | 32.0   |
| 1979 | 27.0 | 3.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -9.9   |
| 1980 | 3.0  | 12.0 | 3.5  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 1.0  | 27.5   |
| 1981 | 2.5  | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2  | 19.2   |
| 1982 | 6.0  | 10.0 | 4.5  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 25.5   |
| 1983 | 2.0  | 3.5  | 7.0  | -9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 13.0 | -9.9   |
| 1984 | 8.5  | 2.0  | 4.0  | -9.9 | 0.0  | -9.9 | -9.9 | -9.9 | -9.9 | -9.9 | 0.0  | -9.9 | -9.9   |

-9.9 = missing

# Appendix F

Monthly totals of number of days of of accumulated snowfall (inches) from year 1940 to 2008  
(concluded)

| <b>Year</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Annual</b> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| 1985        | 10.0       | 6.6        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.3        | 3.0        | 19.9          |
| 1986        | 1.0        | 11.2       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 12.2          |
| 1987        | 12.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 8.0        | 20.0          |
| 1988        | 0.5        | 7.0        | 1.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.5        | 5.2        | 14.2          |
| 1989        | 0.0        | 13.5       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 8.0        | 21.5          |
| 1990        | 5.0        | 4.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.0        | 11.0          |
| 1991        | 8.5        | 1.0        | 7.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.0        | 8.0        | 26.5          |
| 1992        | 4.0        | 0.0        | 0.5        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 5.5        | 10.0          |
| 1993        | 3.0        | 9.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.0        | 14.0          |
| 1994        | 8.5        | 11.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 19.5          |
| 1995        | 4.0        | 0.5        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.5        | 4.0        | 9.0           |
| 1996        | 5.0        | 0.6        | 2.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 8.6           |
| 1997        | 14.6       | 2.0        | 0.0        | 11.5       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 8.4        | 36.5          |
| 1998        | 5.2        | 0.0        | 5.5        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 2.5        | 14.2          |
| 1999        | 15.5       | 2.0        | 7.5        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 4.0        | 29.0          |
| 2000        | 9.9        | 1.0        | 0.0        | 1.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 18.1       | 30.0          |
| 2001        | 5.0        | 2.0        | 1.5        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 8.5           |
| 2002        | 6.3        | 0.5        | 7.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.3        | 2.5        | 16.6          |
| 2003        | 3.0        | 4.3        | 0.3        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 5.5        | 13.1          |
| 2004        | 7.0        | 5.0        | 3.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 3.3        | 1.0        | 19.3          |
| 2005        | 6.0        | 0.3        | 0.6        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | -9.9       | -9.9          |
| 2006        | 3.5        | 1.0        | 5.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 11.0       | 20.5          |
| 2007        | 4.0        | 14.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | -9.9       | -9.9       | -9.9          |
| 2008        | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9       | -9.9          |
|             |            |            |            |            |            |            |            |            |            |            |            |            |               |
| Average     | 6.1        | 4.2        | 2.7        | 0.7        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.9        | 5.1        | 20.0          |

-9.9 = missing

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Monthly totals of accumulated precipitation (inches) from year 1940 to 2008

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov  | Dec   | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|
| 1940 | -9.99 | -9.99 | -9.99 | -9.99 | -9.99 | -9.99 | 1.52  | 3.01  | 0.80  | 3.33  | 1.96 | 0.60  | -9.99  |
| 1941 | 2.92  | 0.95  | 1.94  | 3.40  | 2.14  | 4.78  | 2.53  | 2.19  | 5.65  | 9.75  | 1.12 | 1.26  | 38.63  |
| 1942 | 1.06  | 4.60  | 2.55  | 3.11  | 3.72  | 4.36  | 5.86  | 2.41  | 3.21  | 0.90  | 6.36 | 2.59  | 40.73  |
| 1943 | 2.26  | 1.13  | 1.61  | 5.71  | 8.82  | 3.14  | 0.89  | 2.62  | 0.85  | 0.85  | 1.54 | 0.53  | 29.95  |
| 1944 | 0.58  | 1.52  | 6.76  | 6.59  | 3.82  | 2.41  | 2.61  | 2.30  | 3.96  | 1.29  | 1.72 | 1.41  | 34.97  |
| 1945 | 1.28  | 1.30  | 3.05  | 4.80  | 6.88  | 4.22  | 0.52  | 2.93  | 6.80  | 0.90  | 2.25 | 2.05  | 36.98  |
| 1946 | 2.63  | 0.41  | 3.63  | 0.91  | 4.97  | 5.85  | 1.22  | 2.67  | 2.70  | 3.35  | 4.09 | 2.08  | 34.51  |
| 1947 | 1.50  | 0.34  | 1.96  | 5.03  | 5.86  | 6.55  | 0.92  | 1.49  | 1.75  | 1.80  | 2.49 | 3.10  | 32.79  |
| 1948 | 1.75  | 1.86  | 5.02  | 1.00  | 3.44  | 3.43  | 7.49  | 1.25  | 3.38  | 1.06  | 1.60 | 2.84  | 34.12  |
| 1949 | 3.81  | 1.90  | 1.95  | 1.76  | 1.71  | 4.98  | 2.43  | 1.75  | 1.03  | 2.06  | 0.78 | 5.16  | 29.32  |
| 1950 | 4.10  | 2.72  | 1.59  | 6.37  | 1.63  | 7.01  | 4.70  | 0.64  | 5.29  | 1.10  | 1.60 | 0.84  | 37.59  |
| 1951 | 1.69  | 3.34  | 3.36  | 4.22  | 3.01  | 5.59  | 7.65  | 3.57  | 4.05  | 3.06  | 2.81 | 2.00  | 44.35  |
| 1952 | 0.98  | 1.04  | 3.52  | 3.28  | 4.42  | 8.53  | 3.00  | 5.46  | -9.99 | 0.87  | 2.95 | 1.97  | -9.99  |
| 1953 | 1.25  | 1.29  | 4.02  | 2.91  | 2.94  | 3.05  | 5.48  | 0.57  | 2.12  | 1.44  | 0.43 | 2.01  | 27.51  |
| 1954 | 1.16  | 2.22  | 3.95  | 4.43  | 4.19  | 6.01  | 3.86  | 6.35  | 1.11  | 3.86  | 2.05 | 1.36  | 40.55  |
| 1955 | 1.65  | 2.37  | 1.24  | 4.85  | 5.22  | 5.44  | 0.91  | 3.93  | 2.43  | 4.20  | 1.01 | 0.47  | 33.72  |
| 1956 | 0.19  | 1.53  | 0.91  | 2.45  | 2.52  | 1.25  | 6.73  | 3.29  | 0.62  | 0.67  | 1.91 | 1.51  | 23.58  |
| 1957 | 1.67  | 0.49  | 1.98  | 6.82  | -9.99 | 5.90  | 3.24  | 1.86  | 2.44  | 4.54  | 2.23 | 2.89  | -9.99  |
| 1958 | 1.18  | 0.50  | 0.25  | 3.23  | 1.21  | 8.16  | 6.48  | 3.10  | 2.57  | 1.26  | 2.40 | 0.24  | 30.58  |
| 1959 | 1.76  | 1.63  | 2.70  | 3.59  | 5.00  | 1.11  | -9.99 | 1.19  | 5.91  | 4.69  | 1.57 | 2.46  | -9.99  |
| 1960 | 2.04  | 2.31  | 3.28  | 3.74  | 6.16  | 5.44  | 2.85  | 4.59  | 3.73  | 1.17  | 1.95 | 0.55  | 37.81  |
| 1961 | 0.36  | 0.97  | 3.15  | 2.64  | 2.16  | 1.72  | 4.52  | 3.46  | 11.24 | 2.85  | 2.89 | 1.87  | 37.83  |
| 1962 | 1.74  | 1.23  | 2.64  | 1.14  | 5.23  | 1.31  | 4.26  | 3.10  | 1.93  | 3.56  | 1.10 | 0.30  | 27.54  |
| 1963 | 0.73  | 0.44  | 3.46  | 4.52  | 2.40  | 0.76  | 4.41  | 3.41  | 1.34  | 0.64  | 2.68 | 0.65  | 25.44  |
| 1964 | 1.23  | 0.64  | 3.83  | 6.25  | 0.81  | 5.35  | 2.34  | 1.01  | 3.32  | 0.01  | 2.69 | 1.24  | 28.72  |
| 1965 | 6.54  | 1.05  | 3.01  | 7.00  | -9.99 | 0.40  | 1.57  | 6.58  | 7.74  | 1.07  | 0.82 | 4.92  | -9.99  |
| 1966 | 1.20  | 2.10  | 2.81  | 3.34  | 3.79  | 2.48  | 2.35  | -9.99 | 3.60  | 1.54  | 5.10 | 2.80  | -9.99  |
| 1967 | 1.82  | 0.69  | 1.32  | 7.08  | 2.36  | 2.67  | 4.55  | 1.69  | 2.36  | 6.21  | 2.50 | 2.39  | 35.64  |
| 1968 | 1.57  | 0.74  | 1.06  | 2.40  | 2.75  | 7.47  | 1.67  | 0.75  | 4.82  | 0.29  | 2.87 | 2.65  | 29.04  |
| 1969 | 1.94  | 0.26  | 1.24  | 1.87  | 3.30  | 5.51  | 3.87  | 0.87  | 3.82  | 5.81  | 0.78 | 1.21  | 30.48  |
| 1970 | 0.49  | 0.73  | 1.64  | 6.77  | 8.93  | 9.00  | 6.24  | 5.11  | 9.97  | 3.57  | 0.93 | 1.18  | 54.56  |
| 1971 | 0.76  | 2.64  | 1.20  | 0.77  | 2.26  | 1.88  | 5.99  | 1.18  | 3.63  | 2.10  | 2.30 | -9.99 | -9.99  |
| 1972 | -9.99 | 0.29  | 2.18  | 3.31  | 2.81  | 7.52  | 5.48  | 7.80  | 3.26  | 2.67  | 2.93 | 2.53  | -9.99  |
| 1973 | 1.46  | 1.29  | 5.25  | 5.17  | 3.59  | 5.72  | 6.33  | 0.89  | 3.75  | 4.63  | 2.09 | 4.09  | 44.26  |
| 1974 | 3.23  | 1.51  | 3.02  | 4.33  | 5.13  | 9.39  | 1.39  | 0.49  | 1.28  | 1.63  | 3.56 | 1.79  | 36.75  |
| 1975 | 1.65  | 2.62  | 2.06  | 2.96  | 4.07  | 3.59  | 3.73  | 4.07  | 3.03  | 3.27  | 1.91 | 1.58  | 34.54  |
| 1976 | 0.44  | 1.78  | 5.77  | 4.82  | 5.06  | 1.99  | 3.47  | 3.80  | 2.11  | 2.91  | 0.78 | 0.39  | 33.32  |
| 1977 | 0.94  | 0.85  | 4.00  | 1.28  | 3.90  | 1.84  | 5.63  | 5.47  | 7.31  | 4.67  | 1.58 | 1.52  | 38.99  |
| 1978 | 0.87  | 0.38  | 1.33  | 4.51  | 6.20  | 1.29  | 4.87  | 1.12  | 3.22  | 1.77  | 2.76 | 2.33  | 30.65  |
| 1979 | 2.78  | 0.88  | 5.29  | 4.31  | 1.34  | 2.91  | 3.97  | 2.06  | 0.00  | 1.41  | 3.02 | 3.03  | 31.00  |
| 1980 | 0.51  | 1.70  | 2.71  | 2.67  | 2.98  | 7.16  | 1.45  | 5.45  | 3.92  | 1.85  | 0.84 | 2.22  | 33.46  |
| 1981 | 0.12  | 2.91  | 1.14  | 7.67  | 5.47  | 8.49  | 4.89  | 9.70  | 4.00  | 1.63  | 1.66 | 0.99  | 48.67  |
| 1982 | 2.52  | 1.61  | 4.13  | 2.90  | 4.80  | 4.19  | 5.42  | 1.68  | 1.31  | 1.16  | 4.25 | 5.77  | 39.74  |
| 1983 | 0.49  | 0.92  | 2.25  | -9.99 | 5.06  | 3.98  | 1.50  | 1.88  | 6.22  | 2.04  | 5.64 | 2.86  | -9.99  |
| 1984 | 0.88  | 1.98  | 4.36  | -9.99 | 4.03  | -9.99 | -9.99 | -9.99 | -9.99 | -9.99 | 5.42 | -9.99 | -9.99  |

-9.99 = missing

# Appendix F

Monthly totals of number of days of of accumulated precipitation (inches) from year 1940 to 2008  
(concluded)

| <b>Year</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Annual</b> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| 1985        | 2.22       | 2.69       | 6.90       | 1.20       | 2.72       | 2.70       | 4.10       | 3.15       | 1.79       | 4.15       | 10.22      | 2.06       | 43.90         |
| 1986        | 0.29       | 2.27       | 0.59       | 0.65       | 7.08       | 6.29       | 4.18       | 1.05       | 7.28       | 7.40       | 0.96       | 1.98       | 40.02         |
| 1987        | 1.25       | 0.00       | 2.46       | 1.51       | 3.53       | 2.24       | 1.19       | 10.00      | 2.31       | 0.65       | 3.25       | 4.33       | 32.72         |
| 1988        | 1.92       | 0.79       | 2.63       | 1.93       | 1.30       | 0.70       | 0.26       | 2.24       | 1.66       | 3.10       | 4.21       | 2.46       | 23.20         |
| 1989        | 1.34       | 1.18       | 0.49       | 3.39       | 2.92       | 1.49       | 1.85       | 4.06       | 7.89       | 1.28       | 0.92       | 0.92       | 27.73         |
| 1990        | 1.45       | 3.38       | 4.26       | 1.80       | 7.24       | 10.91      | 4.67       | 3.53       | 0.85       | 2.48       | 4.84       | 3.26       | 48.67         |
| 1991        | 0.88       | 0.59       | 4.13       | 2.86       | 6.24       | 0.70       | 0.42       | 2.67       | 3.88       | 7.93       | 3.86       | 1.52       | 35.68         |
| 1992        | 0.96       | 1.14       | 1.61       | 1.49       | 0.60       | 0.98       | 9.09       | 2.49       | 5.95       | 0.50       | 5.36       | 2.98       | 33.15         |
| 1993        | 3.18       | 1.69       | -9.99      | 5.79       | 2.18       | 4.49       | 7.14       | 7.83       | 4.98       | 1.34       | 1.90       | 1.24       | -9.99         |
| 1994        | 1.28       | 2.10       | 0.87       | 2.59       | 2.02       | 2.77       | 2.22       | 4.30       | 2.05       | 1.60       | 6.20       | 2.68       | 30.68         |
| 1995        | 2.56       | 0.61       | 1.96       | 5.20       | 10.81      | 2.22       | 3.45       | 3.83       | 1.63       | 3.93       | 2.28       | 0.44       | 38.92         |
| 1996        | 4.85       | 0.60       | 1.59       | 2.99       | 8.48       | 3.97       | 5.32       | 0.85       | 2.42       | 1.66       | 2.26       | 1.40       | 36.39         |
| 1997        | 1.58       | 6.46       | 0.96       | 3.04       | 2.93       | 2.00       | 2.36       | 7.97       | 3.28       | 2.06       | 2.81       | 1.43       | 36.88         |
| 1998        | 2.76       | 2.37       | 4.20       | 4.01       | 3.41       | 5.58       | 1.94       | 2.73       | 1.82       | 3.41       | 2.31       | 1.33       | 35.87         |
| 1999        | 1.33       | 0.20       | 1.29       | 4.96       | 5.17       | 4.73       | 0.45       | 1.82       | 2.61       | 1.11       | 0.25       | 2.92       | 26.84         |
| 2000        | 1.43       | 1.69       | 2.10       | 3.65       | 3.70       | 5.18       | 1.30       | 3.01       | 3.49       | 1.93       | 2.64       | 1.82       | 31.94         |
| 2001        | 4.29       | 3.14       | 1.17       | 2.88       | 5.20       | 4.72       | 2.64       | 2.46       | 4.11       | 4.52       | 1.46       | 1.09       | 37.68         |
| 2002        | 2.27       | 0.74       | 1.93       | 3.90       | 5.54       | 4.15       | 2.06       | 3.34       | 1.06       | 1.54       | 0.54       | 1.49       | 28.56         |
| 2003        | 0.35       | 0.75       | 1.69       | 1.81       | 6.35       | 2.27       | 5.71       | 0.73       | 3.03       | 1.97       | 3.59       | 1.67       | 29.92         |
| 2004        | 0.81       | 0.44       | 1.84       | 1.93       | 7.48       | 2.36       | 1.18       | 4.92       | 1.61       | 4.01       | 3.77       | 1.59       | 31.94         |
| 2005        | 4.81       | 1.22       | 0.24       | 2.69       | 0.84       | 0.79       | 1.93       | 2.71       | 1.98       | 1.66       | 2.15       | -9.99      | -9.99         |
| 2006        | 3.42       | 1.00       | 3.16       | 4.61       | 2.77       | 1.62       | 2.23       | 5.53       | 3.42       | 2.26       | 3.47       | 3.91       | 37.40         |
| 2007        | 2.49       | 2.11       | 5.59       | 5.07       | 1.05       | 2.77       | 3.74       | 6.96       | 1.14       | 2.31       | -9.99      | -9.99      | -9.99         |
| 2008        | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99      | -9.99         |
|             |            |            |            |            |            |            |            |            |            |            |            |            |               |
| Average     | 1.77       | 1.50       | 2.66       | 3.62       | 4.08       | 4.08       | 3.48       | 3.28       | 3.39       | 2.57       | 2.61       | 2.01       | 34.84         |

-9.99 = missing

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Extremes and averages from year 1940 to 2008

| Precipitation |       |       |      |       |      |       |           | Snow  |       |          | # Days Precip |       |      |
|---------------|-------|-------|------|-------|------|-------|-----------|-------|-------|----------|---------------|-------|------|
|               | Mean  | High  | Yr   | Low   | Yr   | 1-Day | Max       | Mean  | High  | Yr       | =>.01         | =>.50 | =>1. |
| Jan           | 1.78  | 6.54  | 1965 | 0.12  | 1981 | 4.50  | 27/1996   | 6.10  | 27.00 | 1979     | 7.50          | 1.00  | 0.30 |
| Feb           | 1.50  | 6.46  | 1997 | 0.00  | 1987 | 3.86  | 21/1997   | 4.20  | 14.00 | 1950     | 6.40          | 0.80  | 0.20 |
| Mar           | 2.66  | 6.90  | 1985 | 0.24  | 2005 | 3.16  | 15/1944   | 2.70  | 12.10 | 1965     | 8.90          | 1.70  | 0.40 |
| Apr           | 3.63  | 7.67  | 1981 | 0.65  | 1986 | 2.56  | 20/1955   | 0.70  | 11.50 | 1997     | 10.10         | 2.40  | 0.90 |
| May           | 4.09  | 10.81 | 1995 | 0.6   | 1992 | 2.66  | Dec-02    | 0.00  | 0.00  | ----     | 10.90         | 2.80  | 1.00 |
| Jun           | 4.08  | 10.91 | 1990 | 0.4   | 1965 | 4.06  | 20/1964   | 0.00  | 0.00  | ----     | 9.30          | 2.80  | 1.10 |
| Jul           | 3.49  | 9.09  | 1992 | 0.26  | 1988 | 4.49  | Sep-51    | 0.00  | 0.00  | ----     | 7.90          | 2.30  | 1.00 |
| Aug           | 3.29  | 10.00 | 1987 | 0.49  | 1974 | 4.80  | 17/1997   | 0.00  | 0.00  | ----     | 8.00          | 2.20  | 0.80 |
| Sep           | 3.39  | 11.24 | 1961 | 0.00  | 1979 | 3.13  | 14/1961   | 0.00  | 0.00  | ----     | 7.50          | 2.30  | 1.00 |
| Oct           | 2.57  | 9.75  | 1941 | 0.01  | 1964 | 4.02  | Mar-86    | 0.00  | 2.00  | 1967     | 7.00          | 1.70  | 0.60 |
| Nov           | 2.61  | 10.22 | 1985 | 0.25  | 1999 | 3.11  | 19/1985   | 0.90  | 6.20  | 1951     | 8.00          | 1.80  | 0.60 |
| Dec           | 2.01  | 5.77  | 1982 | 0.24  | 1958 | 2.77  | Mar-82    | 5.20  | 18.10 | 2000     | 7.70          | 1.10  | 0.40 |
|               |       |       |      |       |      |       |           |       |       |          |               |       |      |
| Annual        | 35.10 | 54.56 | 1970 | 21.83 | 2005 | 4.80  | 8/17/1997 | 19.80 | 40.90 | 195199.2 | 22.90         | 8.30  |      |
|               |       |       |      |       |      |       |           |       |       |          |               |       |      |
| Winter        | 5.29  | 11.98 | 1950 | 1.47  | 1963 | 4.50  | 1/27/1996 | 15.50 | 41.5  | 197921.6 | 2.90          | 0.90  |      |
|               |       |       |      |       |      |       |           |       |       |          |               |       |      |
| Spring        | 10.38 | 17.97 | 1995 | 3.70  | 1992 | 3.16  | 3/15/1944 | 3.40  | 13.50 | 197029.9 | 6.90          | 2.30  |      |
|               |       |       |      |       |      |       |           |       |       |          |               |       |      |
| Summer        | 10.86 | 23.08 | 1981 | 3.20  | 1988 | 4.80  | 8/17/1997 | 0.00  | 0.00  | 190025.2 | 7.30          | 2.90  |      |
|               |       |       |      |       |      |       |           |       |       |          |               |       |      |
| Fall          | 8.57  | 16.98 | 1961 | 3.14  | 2002 | 4.02  | 10/3/1986 | 0.90  | 6.20  | 195122.5 | 5.80          | 2.20  |      |

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Precipitation percentiles from year 1940 to 2008

|        | 1%    | 5%    | 10%   | 25%   | 50%   | 75%   | 90%   | 95%   | 99%   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Jan    | 0.15  | 0.34  | 0.50  | 0.88  | 1.51  | 2.39  | 3.41  | 4.14  | 5.76  |
| Feb    | 0.00  | 0.26  | 0.41  | 0.75  | 1.29  | 2.03  | 2.89  | 3.50  | 4.84  |
| Mar    | 0.33  | 0.65  | 0.90  | 1.47  | 2.34  | 3.51  | 4.84  | 5.77  | 7.81  |
| Apr    | 0.68  | 1.17  | 1.51  | 2.24  | 3.31  | 4.67  | 6.16  | 7.19  | 9.40  |
| Mar    | 0.66  | 1.19  | 1.58  | 2.42  | 3.68  | 5.31  | 7.13  | 8.39  | 11.10 |
| Jun    | 0.41  | 0.87  | 1.25  | 2.12  | 3.52  | 5.44  | 7.65  | 9.22  | 12.65 |
| Jul    | 0.33  | 0.73  | 1.04  | 1.79  | 2.99  | 4.65  | 6.58  | 7.94  | 10.93 |
| Aug    | 0.31  | 0.68  | 0.98  | 1.69  | 2.82  | 4.38  | 6.20  | 7.48  | 10.31 |
| Sep    | 0.00  | 0.73  | 1.09  | 1.85  | 2.99  | 4.51  | 6.24  | 7.44  | 10.07 |
| Oct    | 0.16  | 0.41  | 0.62  | 1.18  | 2.12  | 3.48  | 5.11  | 6.28  | 8.88  |
| Nov    | 0.30  | 0.62  | 0.86  | 1.42  | 2.29  | 3.46  | 4.80  | 5.74  | 7.79  |
| Dec    | 0.25  | 0.50  | 0.69  | 1.11  | 1.77  | 2.65  | 3.65  | 4.36  | 5.89  |
|        |       |       |       |       |       |       |       |       |       |
| Annual | 20.61 | 24.78 | 27.27 | 30.55 | 34.49 | 38.75 | 42.88 | 45.48 | 50.63 |
|        |       |       |       |       |       |       |       |       |       |
| Winter | 1.65  | 2.37  | 2.84  | 3.76  | 5.00  | 6.49  | 8.05  | 9.10  | 11.28 |
| Spring | 3.90  | 5.26  | 6.10  | 7.73  | 9.85  | 12.33 | 14.88 | 16.56 | 20.03 |
| Summer | 4.11  | 5.58  | 6.50  | 8.27  | 10.58 | 13.29 | 16.09 | 17.93 | 21.74 |
| Fall   | 2.81  | 3.99  | 4.74  | 6.21  | 8.18  | 10.53 | 12.98 | 14.62 | 18.02 |

# Appendix F

From Mid-Western Regional Climate Center, Station (111627) CHILLICOTHE, IL

Ranking of precipitation for January to December for year 1940 to 2008

| Rank | Year  | Data  | Rank | Year   | Data  | Rank | Year  | Data  | Rank | Year  | Data  | Rank | Year  | Data  |
|------|-------|-------|------|--------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| 1    | 2008* | 1.59  | 2    | 1940*  | 11.16 | 3    | 1984* | 16.67 | 4    | 2005* | 21.83 | 5    | 1988  | 23.2  |
| 6    | 1956  | 23.58 | 7    | 1963   | 25.44 | 8    | 1999  | 26.84 | 9    | 1953  | 27.51 | 10   | 1962  | 27.54 |
| 11   | 1989  | 27.73 | 12   | 1971*  | 27.79 | 13   | 2002  | 28.56 | 14   | 1964  | 28.72 | 15   | 1968  | 28.99 |
| 16   | 1949  | 29.32 | 17   | 2003   | 29.92 | 18   | 1943  | 29.95 | 19   | 1969  | 30.48 | 20   | 1958  | 30.58 |
| 21   | 1978  | 30.65 | 22   | 1994   | 30.68 | 23   | 1979  | 31    | 24   | 1966  | 31.86 | 25   | 2004  | 31.92 |
| 26   | 2000  | 31.94 | 27   | 1987   | 32.72 | 28   | 1947  | 32.79 | 29   | 1983* | 32.84 | 30   | 1992  | 32.88 |
| 31   | 1959* | 32.9  | 32   | 1976   | 33.32 | 33   | 1980  | 33.46 | 34   | 1955  | 33.72 | 35   | 1957* | 34.06 |
| 36   | 1948  | 34.12 | 37   | 1946   | 34.51 | 38   | 1975  | 34.54 | 39   | 1944  | 34.97 | 40   | 1967  | 35.64 |
| 41   | 1991  | 35.68 | 42   | 1998   | 35.87 | 43   | 1952* | 36.02 | 44   | 1996  | 36.39 | 45   | 1974  | 36.75 |
| 46   | 1997  | 36.88 | 47   | 1945   | 36.98 | 48   | 2006  | 37.4  | 49   | 1950  | 37.59 | 50   | 2001  | 37.68 |
| 51   | 1960t | 37.81 | 51   | 2007*t | 37.81 | 52   | 1961  | 37.83 | 53   | 1941  | 38.63 | 54   | 1995  | 38.92 |
| 55   | 1977  | 38.99 | 56   | 1982   | 39.74 | 57   | 1986  | 40.02 | 58   | 1954  | 40.55 | 59   | 1965* | 40.7  |
| 60   | 1942  | 40.73 | 61   | 1972*  | 40.78 | 62   | 1985  | 43.9  | 63   | 1973  | 44.26 | 64   | 1951  | 44.35 |
| 65   | 1993* | 44.94 | 66   | 1981t  | 48.67 | 66   | 1990t | 48.67 | 67   | 1970  | 54.56 |      |       |       |

\* = years have missing data

t = a tie