

| EVENT 1958-2007 and 12/2015-3/2019   | TORNADO        | DATETIME (Atlantic Standard) | SJG Hourly Anomaly | HON Hourly Anomaly | Average Hourly Anomaly | NOTES    |
|--|----------------|------------------------------|--------------------|--------------------|------------------------|----------|
| <a href="#">1958 Florida Tornado Outbreak</a>                                      | F4 - WI        | 4/15/1958/13:00-14:00        | -9.9               | -20.4              | -19.5                  |          |
| <a href="#">Colfax Tornado Outbreak, 6/4/20:00-23:00, [1st DST]</a>                | F5 - WI        | 6/4/1958/20:00-21:00         | 12.6               | 9.8                | 12.9                   |          |
|  | F4 - WI        | 6/4/1958/21:00-22:00         | 13.8               | 15.1               | 10.1                   |          |
|  | F4 - WI        | 6/4/1958/22:00-23:00         | 15.4               | 19.4               | 7.8                    |          |
| <a href="#">June 1958 Tornado, [last DST]</a>                                      | F4 - KS        | 6/10/1958/19:00-20:00        | -52.4              | -27.1              | -39.8                  |          |
| <a href="#">February 1959 Tornado</a>  | F4 - MO and IL | 2/10/1959/15:00-17:00        | 5.6                | -2.3               | 4.5                    | Averaged |
| <a href="#">March 1959 Tornado</a>   | F4 - TX        | 3/31/1959/23:00-00:00        | -32.9              | -32.6              | -33.6                  |          |
| <a href="#">Pontotoc Tornado, [1st DST]</a>  | F4 - OK        | 5/9/1959/20:00-21:00         | 13.7               | 5                  | 7.6                    |          |
| <a href="#">May 1959 Tornado</a>   | F4 - IA        | 5/10/1959/15:00-16:00        | 9.2                | 6                  | 11.9                   |          |
| <a href="#">Wayne Tornado</a>  | F4 - IA        | 5/20/1959/21:00-22:00        | -10.4              | -13.3              | -6.8                   |          |
| <a href="#">Wright 1959 Tornado</a>  | F4 - MO        | 9/26/1959/16:00-17:00        | -26.3              | -25.8              | -23.6                  |          |
| <a href="#">Late-September 1959 Tornado, [last DST]</a>                            | F4 - KS and OK | 9/27/1959/20:00-21:00        | -33.2              | -36.8              | -29                    |          |
| <a href="#">May 1960 Tornado Outbreak, 5/4-6/1960, [1st DST]</a>                   | F4 - OK        | 5/4/1960/22:00-23:00         | -6.6               | 5                  | -8.1                   |          |
|  | F4 - OK        | 5/4/1960/23:00-00:00         | -4.6               | 6.8                | -6.9                   |          |
|  | F5 - OK        | 5/5/1960/20:00-21:00         | 0.6                | -2                 | -7.4                   |          |
|  | F4 - OK        | 5/5/1960/21:00-22:00         | -6.9               | -7                 | -9.2                   |          |
| <a href="#">Shawnee - Jefferson Tornado Outbreak, 5/19/19:00-20:00, [last DST]</a> | F4 - KS        | 5/19/1960/19:00-20:00        | 10.3               | 7.5                | 9                      |          |
|  | F4 - KS        | 5/19/1960/19:00-20:00        | 10.3               | 7.5                | 9                      |          |
| <a href="#">April 1961 Tornado</a>   | F4 - IN and OH | 4/25/1961/15:00-16:00        | -4.9               | -2.2               | -5.4                   |          |
| <a href="#">Le Flore 1961 Tornado, [1st DST]</a>                                   | F4 - OK        | 5/5/1961/19:00-20:00         | 6.4                | -3.5               | 2.2                    |          |
| <a href="#">Early-May 1961 Tornado</a>   | F4 - KS and MO | 5/7/1961/17:00-18:00         | 13.3               | -1.2               | 4.1                    |          |
| <a href="#">Late-May 1961 Tornado</a>  | F4 - NE        | 5/30/1961/19:00-20:00        | 36.4               | 9.4                | 24.4                   |          |
| <a href="#">Late-June 1961 Tornado</a>   | F4 - MT        | 6/29/1961/19:00-20:00        | -33.6              | -39.1              | -33.5                  |          |
| <a href="#">September 1961 Tornado</a>   | F4 - IA        | 9/1/1961/20:00-21:00         | -43.7              | -34.5              | -25.6                  |          |
| <a href="#">Hurricane Carla, [last DST]</a>  | F4 - TX        | 09/12/1961/05:00-06:00       | -12.3              | -28.8              | -21.9                  |          |
| <a href="#">May 1962 Tornado Outbreak, 5/25-26, [1st DST]</a>                      | F4 - OK        | 5/25/1962/20:00-21:00        | 24.8               | 31.7               | 24.1                   |          |
|  | F4 - OK and TX | 5/26/1962/22:00-23:00        | 9.2                | 17.7               | 13.5                   |          |
|  | F4 - TX        | 5/26/1962/22:00-00:00        | 10.2               | 20.4               | 14.4                   | Averaged |
| <a href="#">Holt Tornado</a>   | F4 - NE        | 5/29/1962/13:00-14:00        | -4.9               | -1.6               | -1.9                   |          |
| <a href="#">August 1962 Tornado</a>  | F4 - KS        | 8/6/1962/19:00-20:00         | -13.1              | -23                | -17.8                  |          |
| <a href="#">September 1962 Tornado Outbreak, 9/16/06:00-07:00, [last DST]</a>      | F4 - MN        | 9/16/1962/06:00-07:00        | -12.7              | -2.5               | -6.9                   |          |
|  | F4 - MN        | 9/16/1962/06:00-07:00        | -12.7              | -2.5               | -6.9                   |          |
| <a href="#">Jefferson 1963 Tornado</a>   | F4 - AL        | 3/5/1963/17:00-18:00         | 6.1                | -0.5               | 2.4                    |          |
| <a href="#">March 1963 Tornado Outbreak, 3/11/16:00-20:00</a>                      | F4 - AL        | 3/11/1963/16:00-17:00        | -31.2              | -15.3              | -17.7                  |          |
|  | F4 - MS        | 3/11/1963/19:00-20:00        | -14.9              | -3.3               | -12                    |          |
| <a href="#">Mid-April 1963 Tornado</a>   | F4 - IL and IN | 4/17/1963/17:00-19:00        | 10.9               | 16.6               | 12.6                   | Averaged |
| <a href="#">Late-April 1963 Tornado, [DST]</a>                                     | F4 - MS        | 4/29/1963/19:00-20:00        | 25.6               | 19                 | 21.2                   |          |
| <a href="#">Shelby 1964 Tornado</a>  | F4 - AL        | 1/24/1964/21:00-22:00        | -10.6              | 5.5                | -2.7                   |          |
| <a href="#">Early-March 1964 Tornado</a>   | F4 - KY        | 3/4/1964/13:00-14:00         | -58.9              | -38.7              | -45.2                  |          |
| <a href="#">Wichita Falls Tornado</a>  | F5 - TX        | 4/3/1964/16:00-17:00         | -30.3              | -34.4              | -25.7                  |          |
| <a href="#">1964 Anderson Tornado</a>  | F4 - KS        | 4/12/1964/18:00-19:00        | 12.1               | 9.9                | 8.7                    |          |
| <a href="#">May 1964 Tornado Outbreak, 5/5/17:00-21:00, [1st DST]</a>              | F4 - NE        | 5/5/1964/17:00-18:00         | -13.5              | -21.5              | -12.6                  |          |
|  | F5 - NE        | 5/5/1964/20:00-21:00         | -4.8               | -22                | -10.5                  |          |
| <a href="#">1964 Michigan Tornado</a>  | F4 - MI        | 5/8/1964/16:00-18:00         | 11.6               | 7                  | 9                      | Averaged |
| <a href="#">Fremont Tornado</a>  | F4 - IA        | 6/22/1964/21:00-22:00        | -9.9               | -14.6              | -12                    |          |
| <a href="#">Ozaukee Tornado</a>  | F4 - WI        | 8/22/1964/17:00-19:00        | -4.2               | -20.6              | -5                     | Averaged |
| <a href="#">Kossuth Tornado</a>  | F4 - IA        | 8/29/1964/18:00-19:00        | 7.4                | 6.7                | 4.5                    |          |
| <a href="#">Lafourche Parish Tornado, [last DST]</a>                               | F4 - LA        | 10/3/1964/08:00-09:00        | -7.7               | -11.1              | -6.9                   |          |
| <a href="#">March 1965 Tornado</a>   | F4 - OK and KS | 3/16/1965/18:00-20:00        | -10.3              | -12.8              | -9.9                   | Averaged |
| <a href="#">Faulkner Tornado</a>   | F4 - AR        | 4/10/1965/20:00-21:00        | 1.7                | 1.2                | 1.6                    |          |
| <a href="#">Palm Sunday Tornado Outbreak, 4/11-12/14:00-01:00</a>                  | F4 - IA        | 4/11/1965/14:00-16:00        | -3.7               | -6                 | -4.1                   | Averaged |
|  | F4 - IL        | 4/11/1965/17:00-18:00        | -33.3              | -21.6              | -24.3                  |          |
|  | F4 - MI        | 4/11/1965/18:00-20:00        | -26.1              | -24.3              | -20.3                  | Averaged |
|  | F4 - IN        | 4/11/1965/19:00-20:00        | -24                | -21.8              | -19.3                  |          |
|  | F4 - IN        | 4/11/1965/19:00-20:00        | -24                | -21.8              | -19.3                  |          |
|  | F4 - IN and MI | 4/11/1965/20:00-21:00        | -22                | -14.9              | -17.8                  |          |
|  | F4 - IN        | 4/11/1965/20:00-21:00        | -22                | -14.9              | -17.8                  |          |
|  | F4 - IN        | 4/11/1965/20:00-21:00        | -22                | -14.9              | -17.8                  |          |
|  | F4 - IN        | 4/11/1965/20:00-21:00        | -22                | -14.9              | -17.8                  |          |
|  | F4 - IN        | 4/11/1965/20:00-21:00        | -22                | -14.9              | -17.8                  |          |

|  |                |                        |       |       |       |                        |
|--|----------------|------------------------|-------|-------|-------|------------------------|
|  | F4 - IN        | 4/11/1965/21:00-22:00  | -15.7 | -17.8 | -16.3 |                        |
|  | F4 - MI        | 4/11/1965/21:00-22:00  | -15.7 | -17.8 | -16.3 |                        |
|  | F4 - OH        | 4/11/1965/22:00-23:00  | -13.4 | -14.4 | -13.5 |                        |
|  | F4 - OH        | 4/11/1965/22:00-23:00  | -13.4 | -14.4 | -13.5 |                        |
|  | F4 - OH        | 4/11/1965/23:00-00:00  | -11   | -9.2  | -10.6 |                        |
|  | F4 - OH        | 4/12/1965/00:00-01:00  | -13.2 | -10.7 | -11   |                        |
| <a href="#">Early-May 1965 Tornado Outbreak, 5/8/19:00-00:00 [1st DST]</a>     | F4 - NE        | 5/8/1965/19:00-20:00   | -30.3 | -4.7  | -19.6 |                        |
|  | F4 - IA        | 5/8/1965/19:00-20:00   | -30.3 | -4.7  | -19.6 |                        |
|  | F5 - SD        | 5/8/1965/19:00-21:00   | -41.7 | -17.7 | -27.1 | Averaged               |
|  | F4 - NE        | 5/8/1965/20:00-21:00   | -53.1 | -30.6 | -34.6 |                        |
|  | F4 - MN        | 5/8/1965/21:00-22:00   | -60.1 | -40.3 | -41.3 |                        |
|  | F4 - MN        | 5/8/1965/21:00-22:00   | -60.1 | -40.3 | -41.3 |                        |
|  | F4 - MN        | 5/8/1965/22:00-23:00   | -42.6 | -40.5 | -37.9 |                        |
|  | F4 - IA        | 5/8/1965/23:00-00:00   | -42.7 | -38.4 | -34   |                        |
|  | F4 - MN        | 5/8/1965/23:00-00:00   | -42.7 | -38.4 | -34   |                        |
| <a href="#">Early-June 1965 Tornado</a>  | F4 - TX        | 6/2/1965/23:00-00:00   | -0.3  | 1.3   | 1.2   |                        |
| <a href="#">Yankton-Turner Tornado</a>   | F4 - SD        | 6/7/1965/19:00-20:00   | -8.5  | -8.3  | -7.4  |                        |
| <a href="#">Late-August 1965 Tornado, [last DST]</a>                           | F4 - IA        | 8/26/1965/21:00-22:00  | -4.3  | 4.4   | -1.2  |                        |
| <a href="#">Candlestick Park Tornado</a>                                       | F5 - MS and AL | 3/3/1966/19:00-20:00   | -25.8 | -14.4 | -17.1 |                        |
| <a href="#">Tampa Tornado Family</a>   | F4 - FL        | 4/4/1966/14:00-15:00   | -4    | -2.6  | -1.9  |                        |
| <a href="#">Late-April 1966 Tornado, [first event in standardized DST]</a>     | F4 - OK        | 4/27/1966/21:00-22:00  | 15.2  | 20.4  | 17.5  |                        |
| <a href="#">June 1966 Tornado Outbreak, 6/3-12</a>                             | F5 - KS        | 6/8/1966/22:00-23:00   | -11   | 6.9   | -0.3  |                        |
|  | F4 - KS        | 6/8/1966/23:00-00:00   | -9    | 10.3  | -0.4  |                        |
|  | F4 - MN        | 6/11/1966/20:00-21:00  | 9.4   | 11.4  | 12.3  |                        |
| <a href="#">October 1966 Tornado, [last DST]</a>                               | F5 - IA        | 10/14/1966/15:00-17:00 | 9.8   | 0.2   | 2.6   | Averaged               |
| <a href="#">St. Louis Tornado Outbreak, 1/24/16:00-22:00</a>                   | F4 - MO        | 1/24/1967/16:00-18:00  | -9    | -11.2 | -9.3  | Averaged               |
|  | F4 - MO        | 1/24/1967/20:00-22:00  | -10.4 | -7.8  | -9.5  | Averaged               |
| <a href="#">March 1967 Tornado</a>   | F4 - AL        | 3/6/1967/17:00-18:00   | -1.4  | 2.9   | 1.3   |                        |
| <a href="#">Oak Lawn Tornado Outbreak, 4/21/17:00-22:00</a>                    | F4 - MO        | 4/21/1967/17:00-18:00  | -15.8 | -1.6  | -9.6  |                        |
|  | F4 - IL        | 4/21/1967/18:00-20:00  | -9.1  | 3.5   | -6.1  | Averaged               |
|  | F4 - IL        | 4/21/1967/19:00-20:00  | -8.5  | 4.4   | -6.2  |                        |
|  | F4 - IL        | 4/21/1967/19:00-20:00  | -8.5  | 4.4   | -6.2  |                        |
|  | F4 - MI        | 4/21/1967/21:00-22:00  | -16.7 | -8.3  | -9.1  |                        |
| <a href="#">Iowa - Minnesota Tornado Outbreak, 4/30/20:00-23:00, [1st DST]</a> | F4 - IA        | 4/30/1967/20:00-21:00  | 23.6  | 21.1  | 20.8  |                        |
|  | F4 - IA        | 4/30/1967/21:00-22:00  | 26.5  | 23.9  | 21.6  |                        |
|  | F4 - MN        | 4/30/1967/21:00-22:00  | 26.5  | 23.9  | 21.6  |                        |
|  | F4 - MN        | 4/30/1967/22:00-23:00  | 25.9  | 24.3  | 21.8  |                        |
| <a href="#">June 1967 Tornado Outbreak, 6/8-14, [last DST]</a>                 | F4 - IA        | 6/8/1967/23:00-00:00   | -33.3 | -33.1 | -38.2 |                        |
|  | F4 - OK        | 6/10/1967/22:00-23:00  | -20.9 | -33.9 | -24.9 |                        |
|  | F4 - OK        | 6/10/1967/23:00-00:00  | -19.8 | -32.1 | -23.3 |                        |
| <a href="#">Scott Tornado</a>  | F4 - MS        | 12/2/1967/14:00-15:00  | -29.7 | -28.4 | -23.6 |                        |
| <a href="#">December 1967 Tornado</a>  | F4 - MO        | 12/21/1967/02:00-03:00 | -14.4 | -12.4 | -14.6 |                        |
| <a href="#">Early-April 1968 Tornado Outbreak, 4/3-4</a>                       | F4 - AR        | 4/3/1968/20:00-21:00   | -11.3 |       | -13.8 | Bad HON data           |
|  | F4 - KY        | 4/4/1968/01:00-03:00   | -30.5 |       | -32   | Averaged; Bad HON data |
| <a href="#">Sebastian Tornado</a>  | F4 - AR        | 4/19/1968/17:00-18:00  | 16.6  | 26.8  | 18.2  |                        |
| <a href="#">Wheelerburg Tornado Outbreak, 4/23/19:00-23:00</a>                 | F4 - KY        | 4/23/1968/19:00-20:00  | -5.6  | -8.2  | -3.7  |                        |
|  | F4 - OH        | 4/23/1968/19:00-21:00  | -9    | -11.7 | -6.5  | Averaged               |
|  | F5 - OH        | 4/23/1968/22:00-23:00  | -7.8  | -6.7  | -7.6  |                        |
| <a href="#">May 1968 Tornado Outbreak, 5/15-16, [1st DST]</a>                  | F5 - IA        | 5/15/1968/17:00-18:00  | -9.6  | 13.2  | 6.8   |                        |
|  | F5 - IA        | 5/15/1968/17:00-19:00  | -3.5  | 12.3  | 7.7   | Averaged               |
|  | F4 - AR        | 5/15/1968/22:00-23:00  | -5.8  | 2.1   | -5.6  |                        |
|  | F4 - AR        | 5/15/1968/22:00-23:00  | -5.8  | 2.1   | -5.6  |                        |
| <a href="#">Tracy Tornado</a>  | F5 - MN        | 6/13/1968/19:00-20:00  | -67.6 | -55.5 | -58.8 |                        |
| <a href="#">Marinette Tornado, [last DST]</a>                                  | F4 - WI        | 8/19/1968/18:00-19:00  | 0.5   | -20.6 | -8.2  |                        |
| <a href="#">Hazlehurst Tornado Outbreak</a>                                    | F4 - MS        | 1/23/1969/07:00-08:00  | 4.1   | 9.7   | 10.9  |                        |
| <a href="#">April 1969 Tornado</a>   | F4 - AL        | 4/18/1969/04:00-05:00  | -10.6 | -24.6 | -23.8 |                        |
| <a href="#">June 1969 Tornado Outbreak, 6/21-24, [1st DST]</a>                 | F4 - MO        | 6/22/1969/19:00-20:00  | 23.8  | 18.7  | 20.2  |                        |
|  | F4 - MO        | 6/22/1969/20:00-21:00  | 21.6  | 21    | 20.9  |                        |
|  | F4 - KS        | 6/23/1969/18:00-19:00  | 0.9   | 17.5  | 2.3   |                        |
| <a href="#">July 1969 Tornado</a>  | F4 - SD        | 7/7/1969/19:00-20:00   | 15    | 28.8  | 15.3  |                        |
| <a href="#">1969 Minnesota Tornado Outbreak, [last DST]</a>                    | F4 - MN        | 8/6/1969/17:00-18:00   |       | 19.2  | 8.6   | SJG bad data           |

|  |                |                        |       |       |       |          |
|--|----------------|------------------------|-------|-------|-------|----------|
| Mid-April 1970 Tornado Outbreak, 4/17-18                 | F4 - TX        | 4/17/1970/22:00-00:00  | -7.3  | -10.1 | -8.9  | Averaged |
|  | F4 - TX        | 4/18/1970/00:00-01:00  | -9.3  | -7.5  | -8.9  |          |
|  | F4 - TX        | 4/18/1970/00:00-01:00  | -9.3  | -7.5  | -8.9  |          |
|  | F4 - TX        | 4/18/1970/03:00-04:00  | -5.7  | 5     | -1.3  |          |
| Mississippi - Tennessee 1970 Tornado                     | F4 - MS and TN | 4/19/1970/14:00-16:00  | -38.3 | -24.3 | -28   | Averaged |
| Late-April 1970 Tornado, [1st DST]                       | F4 - TN        | 4/27/1970/16:00-17:00  | -22.4 | -3.3  | -14   |          |
| Lubbock Tornado Outbreak, 5/11-12                        | F5 - TX        | 5/11/1970/22:00-23:00  | 19.3  | 19.3  | 16.9  |          |
| 1970 Tornado Outbreak, 6/10-16                           | F4 - MO        | 6/12/1970/14:00-15:00  | 19.8  | 3.7   | 10.7  |          |
| October 1970 Tornado, [last DST]                         | F4 - OK        | 10/5/1970/17:00-18:00  | -1.4  | 1.3   | 2.2   |          |
| Mississippi Delta Tornado Outbreak, 2/21/16:00-23:00     | F5 - LA and MS | 2/21/1971/16:00-18:00  | 1     | -9.4  | -6.1  | Averaged |
|  | F4 - MS        | 2/21/1971/18:00-19:00  | 2.7   | -9.2  | -4.9  |          |
|  | F4 - MS        | 2/21/1971/19:00-20:00  | 4.5   | -5.8  | -2.5  |          |
|  | F4 - TN        | 2/21/1971/22:00-23:00  | 4.3   | -2.2  | 1.3   |          |
| Bowie Tornado  | F4 - TX        | 3/12/1971/20:00-21:00  | -34.4 | -7.8  | -18.5 |          |
| Monroe Tornado   | F4 - AL        | 4/23/1971/13:00-14:00  | -19.4 | -9.7  | -10.6 |          |
| April 1971 Tornado Outbreak, 4/27/22:00-00:00, [1st DST] | F4 - KY        | 4/27/1971/22:00-23:00  | 2.4   | 3.3   | 7.5   |          |
|  | F4 - KY        | 4/27/1971/23:00-00:00  | -4.9  | 4     | 5.5   |          |
| Early-May 1971 Tornado                                   | F4 - TN        | 5/7/1971/19:00-20:00   | -29.6 | -27.6 | -26.3 |          |
| Hansford Tornado Outbreak, 6/9/19:00-23:00               | F4 - TX        | 6/9/1971/19:00-20:00   | 6.1   | -2.2  | 1.4   |          |
|  | F4 - TX        | 6/9/1971/22:00-00:00   | 6.4   | -1.3  | 0.4   | Averaged |
| Mid-July 1971 Tornado, [last DST]                        | F4 - IA        | 7/12/1971/19:00-20:00  | 23.7  | 30.5  | 23.5  |          |
| April 1972 Tornado                                       | F4 - OK        | 4/19/1972/19:00-20:00  | -2.8  | -16   | -9.9  |          |
| Late-April 1972 Tornado, [1st DST]                       | F4 - KS        | 4/30/1972/20:00-21:00  | -20.1 | -9.3  | -17.1 |          |
| May 1972 Tornado, [IN opted out of DST]                  | F4 - IN        | 5/14/1972/13:00-14:00  | -17.7 | -4.1  | -10.5 |          |
| Waukegan - North Chicago Tornado Outbreak, [last DST]    | F4 - IL        | 9/28/1972/19:00-20:00  | -11.1 | 16    | -3.9  |          |
| Early-March 1973 Tornado                                 | F4 - TX        | 3/10/1973/08:00-09:00  | 7.6   | 0.3   | 2.7   |          |
| March 1973 Tornado                                       | F4 - SC        | 3/31/1973/19:00-20:00  | -22.6 | -26.9 | -27.2 |          |
| Erio Tornado   | F4 - TX        | 4/15/1973/19:00-20:00  | 10.9  | -12.1 | -5.2  |          |
| April 1973 Tornado Outbreak, 4/19-21                     | F4 - MO        | 4/19/1973/21:00-22:00  | -54.2 | -78.6 | -49.9 |          |
|  | F4 - MO        | 4/20/1973/19:00-20:00  | -42.2 | -35.9 | -32.7 |          |
|  | F4 - MO        | 4/21/1973/16:00-17:00  | -37.4 | -37.7 | -34.8 |          |
| Early-May 1973 Tornado, [1st DST]                        | F5 - TX        | 5/6/1973/21:00-22:00   | 4.3   | 14.6  | 10.7  |          |
| DeKalb Tornado   | F5 - AL        | 5/19/1973/20:00-21:00  | -12.6 | -21.3 | -15.1 |          |
| Late-May 1973 Tornado Outbreak, 5/24-29                  | F4 - OK        | 5/24/1973/16:00-17:00  | -4.8  | -21.9 | -13.5 |          |
|  | F4 - OK        | 5/26/1973/16:00-17:00  | -17.6 | -5.6  | -7.4  |          |
|  | F4 - OK        | 5/26/1973/18:00-19:00  | -2.9  | 0.4   | -3.5  |          |
|  | F4 - AR        | 5/27/1973/00:00-01:00  | -10.9 | -0.3  | -4.2  |          |
| August 1973 Tornado, [last DST]                          | F4 - NY and MA | 8/28/1973/12:00-13:00  | -19.8 | -3.1  | -12.6 |          |
| Greenwood Tornado Outbreak                               | F4 - SC        | 12/13/1973/15:00-16:00 | 19.1  | 7.5   | 13.3  |          |
| 1974 Super Outbreak, 4/3-4, [1st DST]                    | F5 - OH        | 4/3/1974/14:00-15:00   | -25.4 | 6.7   | -20.3 |          |
|  | F5 - IN        | 4/3/1974/14:00-15:00   | -25.4 | 6.7   | -20.3 |          |
|  | F5 - IN        | 4/3/1974/15:00-16:00   | -28.6 | 8.8   | -24.8 |          |
|  | F4 - OH        | 4/3/1974/16:00-17:00   | -33.9 | 4     | -28.2 |          |
|  | F5 - KY        | 4/3/1974/16:00-17:00   | -33.9 | 4     | -28.2 |          |
|  | F5 - KY and OH | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - KY        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - KY        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - KY        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - IN        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - GA        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - GA        | 4/3/1974/17:00-18:00   | -26.9 | 5.7   | -17   |          |
|  | F4 - KY        | 4/3/1974/18:00-20:00   | -25.7 | -16.8 | -21.1 | Averaged |
|  | F4 - KY        | 4/3/1974/19:00-20:00   | -22.6 | -19.7 | -22.9 |          |
|  | F4 - KY        | 4/3/1974/19:00-20:00   | -22.6 | -19.7 | -22.9 |          |
|  | F4 - KY        | 4/3/1974/20:00-21:00   | -29.7 | -27.6 | -28   |          |
|  | F4 - KY        | 4/3/1974/20:00-21:00   | -29.7 | -27.6 | -28   |          |

|  |                |                       |        |        |        |              |
|--|----------------|-----------------------|--------|--------|--------|--------------|
|  | F5 - AL        | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F4 - GA        | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F4 - TN        | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F5 - TN        | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F4 - TN        | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F4 - NC and GA | 4/3/1974/20:00-21:00  | -29.7  | -27.6  | -28    |              |
|  | F4 - KY and TN | 4/3/1974/21:00-22:00  | -34.7  | -39    | -33    |              |
|  | F5 - AL        | 4/3/1974/21:00-22:00  | -34.7  | -39    | -33    |              |
|  | F4 - GA        | 4/3/1974/21:00-22:00  | -34.7  | -39    | -33    |              |
|  | F4 - TN        | 4/3/1974/21:00-22:00  | -34.7  | -39    | -33    |              |
|  | F4 - TN        | 4/3/1974/21:00-23:00  | -23.8  | -41.6  | -29.9  | Averaged     |
|  | F5 - AL        | 4/3/1974/21:00-23:00  | -23.8  | -41.6  | -29.9  | Averaged     |
| <a href="#">1974 Great Plains Tornado Outbreak, 6/8/17:00-21:00</a>  | F4 - OK        | 6/8/1974/17:00-19:00  | -4     | -0.1   | 1      | Averaged     |
|  | F4 - KS        | 6/8/1974/20:00-21:00  | 7.9    | 16.6   | 9.8    |              |
| <a href="#">June 1974 Tornado</a>                                    | F4 - IA        | 6/18/1974/23:00-00:00 | -11    | -8.1   | -7.1   |              |
| <a href="#">August 1974 Tornado, [last DST]</a>                      | F4 - NY and MA | 8/28/1973/12:00-13:00 | 2.8    | -14.8  | -9.7   |              |
| <a href="#">Great Storm of 1975, 1/9-12</a>                          | F4 - MS        | 1/10/1975/10:00-11:00 | -5.5   | -10.5  | -6.2   |              |
| <a href="#">February 1975 Tornado, [1st DST]</a>                     | F4 - AL        | 2/23/1975/15:00-16:00 | -26.2  | -8.7   | -21.2  |              |
| <a href="#">April 1975 Tornado Outbreak, 4/23/16:00-19:00</a>        | F4 - MO        | 4/23/1975/16:00-17:00 | -2.9   | -5.4   | -6.5   |              |
|  | F4 - MO        | 4/23/1975/18:00-19:00 | -1.4   | -3.2   | 1.6    |              |
| <a href="#">Late-April 1975 Tornado</a>                              | F4 - MO        | 4/24/1975/20:00-21:00 | 0.3    | 4.7    | -2.6   |              |
| <a href="#">1975 Omaha Tornado Outbreak, 5/6/15:00-18:00</a>         | F4 - NE        | 5/6/1975/15:00-16:00  | -27.8  | -27.2  | -21.6  |              |
|  | F4 - NE        | 5/6/1975/17:00-18:00  | -23.6  | -24.1  | -20.7  |              |
| <a href="#">Mid-June 1975 Tornado</a>                                | F4 - NE        | 6/18/1975/22:00-23:00 | -1.2   | 2      | 0.9    |              |
| <a href="#">Clay Tornado</a>   | F4 - MN        | 6/28/1975/16:00-17:00 | 15.5   | 18.1   | 16.8   |              |
| <a href="#">Late-June 1975 Tornado, [last DST]</a>                   | F4 - ND        | 6/29/1975/21:00-22:00 | -20.6  | -12.3  | -13.4  |              |
| <a href="#">Oakland Tornado, 3/20/15:00-21:00</a>                    | F4 - IL        | 3/20/1976/15:00-16:00 | 12.6   | 7      | 7.3    |              |
|  | F4 - IN        | 3/20/1976/17:00-18:00 | 11.8   | 5.3    | 6.3    |              |
|  | F4 - MI        | 3/20/1976/20:00-21:00 | 10.8   | 13     | 6.8    |              |
| <a href="#">Le Flore Tornado Outbreak, 3/26/16:00-18:00</a>          | F4 - OK        | 3/26/1976/16:00-18:00 | -195.8 | -149.1 | -168.8 | Averaged     |
|  | F5 - OK        | 3/26/1976/17:00-18:00 | -183.3 | -153.2 | -164.7 |              |
|  | F4 - TX        | 3/26/1976/18:00-19:00 | -156.2 | -147   | -143   |              |
|  | F4 - MS        | 3/27/1976/01:00-03:00 | -71.1  | -97.1  | -81.1  | Averaged     |
| <a href="#">Late-March Tornado Outbreak, 3/29/16:00-17:00</a>        | F4 - MS        | 3/29/1976/16:00-17:00 | -29    | -36    | -31.9  |              |
|  | F4 - MS        | 3/29/1976/16:00-17:00 | -29    | -36    | -31.9  |              |
| <a href="#">Barber Tornado</a>                                       | F4 - KS        | 4/17/1976/03:00-05:00 | -10.1  | -5.3   | -3.3   | Averaged     |
| <a href="#">Caddo Tornado</a>  | F4 - OK        | 4/17/1976/06:00-07:00 | -4.3   | -6.9   | -5.3   |              |
| <a href="#">April 1976 Tornado</a>                                   | F5 - TX        | 4/19/1976/19:00-20:00 | 13.2   | 6.5    | 10.2   |              |
| <a href="#">Late-May 1976 Tornado, [1st DST]</a>                     | F4 - TX        | 5/26/1976/18:00-19:00 | -7.6   | 4.1    | -3.3   |              |
| <a href="#">June 1976 Tornado</a>                                    | F5 - IA        | 6/13/1976/16:00-17:00 | -10.5  | -10.5  | -7.5   |              |
| <a href="#">Pottawattamie Tornado</a>                                | F4 - IA        | 6/26/1976/19:00-20:00 | -12.1  | -15.5  | -8.5   |              |
| <a href="#">Late-June 1976 Tornado, [last DST]</a>                   | F4 - IL        | 6/29/1976/15:00-16:00 | 0.2    | 11.7   | 6.9    |              |
| <a href="#">Winston Tornado</a>                                      | F4 - MS        | 2/23/1977/18:00-19:00 | 0.5    | -6.8   | -3     |              |
| <a href="#">Early-April 1977 Tornado Outbreak, 4/2/15:00-17:00</a>   | F4 - MI        | 4/2/1977/15:00-16:00  | -0.1   | 2.1    | 5.9    |              |
|  | F4 - MI        | 4/2/1977/16:00-17:00  | 3.7    | 6.2    | 8.5    |              |
| <a href="#">Birmingham Tornado Outbreak</a>                          | F5 - AL        | 4/4/1977/17:00-18:00  | -20.8  | -2.2   | -9.9   |              |
| <a href="#">Early-May 1977 Tornado Outbreak, 5-4/5, [1st DST]</a>    | F4 - MO        | 5/4/1977/18:00-19:00  | -26.7  | -17.7  | -19.9  |              |
|  | F4 - MO        | 5/4/1977/19:00-20:00  | -22.8  | -13.7  | -18.6  |              |
|  | F4 - IA        | 5/4/1977/20:00-21:00  | -18.4  | -16    | -19.5  |              |
|  | F4 - IL        | 5/5/1977/21:00-22:00  | -13.9  | -14.8  | -13.4  |              |
| <a href="#">Mid-May 1977 Tornado</a>                                 | F4 - OK and CO | 5/18/1977/14:00-16:00 | -11.1  | -16.8  | -12    | Averaged     |
| <a href="#">Early-July 1977 Tornado</a>                              | F4 - NE        | 7/7/1977/16:00-17:00  | -1.9   | -6.6   | -4.8   |              |
| <a href="#">Late-July 1977 Tornado</a>                               | F4 - WI        | 7/30/1977/20:00-21:00 | -22.9  | -33.7  | -25.8  |              |
| <a href="#">Late-August 1977 Tornado, [last DST]</a>                 | F4 - WI        | 8/31/1977/20:00-21:00 | 18.7   | 1.2    | 7.5    |              |
| <a href="#">Early-April 1978 Tornado Outbreak, 4/7-8/22:00-02:00</a> | F4 - NE        | 4/7/1978/22:00-23:00  | 7.9    | 7      | 0.8    |              |
|  | F4 - NE        | 4/8/1978/01:00-02:00  | 7.2    | 15.4   | 7.4    |              |
| <a href="#">Mid-April 1977 Tornado Outbreak</a>                      | F4 - MS        | 4/17/1977/23:00-00:00 | 12.5   | 17.3   | 14.6   |              |
|  | F4 - MS        | 4/18/1977/02:00-03:00 | -23.6  | -26.2  | -19    |              |
| <a href="#">Late-April 1978 Tornado, [1st DST]</a>                   | F4 - OK        | 4/30/1978/20:00-21:00 | -50.4  | -27.1  | -33.4  |              |
| <a href="#">Independence Day 1978 Tornado, [last DST]</a>            | F4 - ND        | 7/4/1978/22:00-23:00  | -104.7 |        | -70.6  | Bad HON data |
| <a href="#">Bossier Parish Tornado</a>                               | F4 - LA        | 12/3/1978/03:00-05:00 | 0.9    | 15     | 4.4    | Averaged     |

|  |                |                        |        |       |       |                        |
|--|----------------|------------------------|--------|-------|-------|------------------------|
| <a href="#">Late-March 1979 Tornado</a>                                      | F4 - MO and IA | 3/29/1979/19:00-20:00  | 0.4    | 11.9  | -1.6  |                        |
| <a href="#">Red River Valley Tornado Outbreak, 4/10-11</a>                   | F4 - TX        | 4/10/1979/17:00-18:00  | -13.5  | -4.8  | -6.2  |                        |
|  | F4 - TX        | 4/10/1979/19:00-21:00  | 5.5    | 0.9   | 3.1   | Averaged               |
| <a href="#">Early-May 1979 Tornado, [1st DST]</a>                            | F4 - OK        | 5/2/1979/18:00-19:00   | -23.7  | -20.2 | -21.4 |                        |
| <a href="#">Pocahontas-Calhoun Tornado</a>                                   | F4 - IA        | 6/28/1979/20:00-21:00  | 8.9    |       | 9.9   | Bad HON data           |
| <a href="#">Late-June 1979 Tornado</a>                                       | F4 - IL        | 6/29/1979/14:00-15:00  | 28     |       | 16.4  | Bad HON data           |
| <a href="#">Windsor Locks Tornado, [last DST]</a>                            | F4 - CT        | 10/3/1979/14:00-15:00  | 14.6   | -4.4  | 5.7   |                        |
| <a href="#">April 1980 Tornado</a>   | F4 - TX        | 4/2/1980/14:00-15:00   | -8.1   | -1.2  | -0.1  |                        |
| <a href="#">Early-June Tornado Outbreak, 6/2-3, [1st DST]</a>                | F4 - IA        | 6/2/1980/15:00-16:00   |        | -4.8  | -4.5  | Bad SJG data           |
|  | F4 - PA        | 6/3/1980/11:00-12:00   |        | -3.3  | -8    | Bad SJG data           |
|  | F4 - NE        | 6/3/1980/23:00-00:00   |        | 1.3   | 4.1   | Bad SJG data           |
| <a href="#">July 1980 Tornado, [last DST]</a>                                | F4 - IN        | 7/9/1980/22:00-23:00   | 0.7    | 13.5  | 0.7   |                        |
| <a href="#">Late-March 1981 Tornado</a>                                      | F4 - IL        | 3/29/1981/20:00-21:00  | -11.8  | -28.9 | -19.8 |                        |
| <a href="#">West Bend Tornado Outbreak, 4/3-4</a>                            | F4 - IL        | 4/4/1981/00:00-02:00   | 18.1   | -2.7  | 4.8   | Averaged               |
|  | F4 - WI        | 4/4/1981/02:00-03:00   | 13.1   | 0.4   | 6.9   |                        |
| <a href="#">Late-April 1981 Tornado</a>                                      | F4 - MO        | 4/22/1981/18:00-20:00  | -42.7  | -39.1 | -38   | Averaged               |
| <a href="#">Lamar Tornado, [1st DST]</a>                                     | F4 - TX        | 5/13/1981/20:00-21:00  | 1.2    | -21.8 | -9.6  |                        |
| <a href="#">Mid-May 1981 Tornado</a>   | F4 - OK        | 5/17/1981/21:00-22:00  | 1.2    | -26.9 | -13.3 |                        |
| <a href="#">May 1981 Tornado Outbreak, 5/22-23, [last DST]</a>               | F4 - OK        | 5/22/1981/18:00-20:00  | -10    | -18.3 | -14.9 | Averaged               |
| <a href="#">March 1982 Tornado</a>   | F4 - TX and OK | 3/18/1982/01:00-03:00  | 30.2   | 32.7  | 33.7  | Averaged               |
| <a href="#">April 1982 Tornado Outbreak, 4/2/17:00-21:00</a>                 | F5 - OK        | 4/2/1982/17:00-19:00   | -85.7  | -67.9 | -71.8 | Averaged               |
|  | F4 - TX        | 4/2/1982/18:00-19:00   | -90.4  | -61.3 | -75.9 |                        |
|  | F4 - AR        | 4/2/1982/19:00-20:00   | -86.2  | -68.2 | -61.8 |                        |
|  | F4 - MO        | 4/2/1982/20:00-21:00   | -73.3  | -60.4 | -52.4 |                        |
| <a href="#">Marion Tornado Outbreak, [DST]</a>                               | F4 - IL        | 5/29/1982/18:00-19:00  | -22    | -37.7 | -27.8 |                        |
| <a href="#">Christmas Eve Tornado</a>  | F4 - AR and MO | 12/24/1982/19:00-20:00 | -11.6  | 33.1  | 1.5   |                        |
| <a href="#">April 1983 Tornado</a>   | F4 - LA        | 4/1/1983/18:00-19:00   |        | -12   | -19.9 | Bad SJG data           |
| <a href="#">July 1983 Tornado Outbreak, 7/3/14:00-22:00, [DST]</a>           | F4 - MN        | 7/3/1983/14:00-15:00   | 13.5   | 8.8   | 14.8  |                        |
|  | F4 - WI        | 7/3/1983/21:00-22:00   | 17.5   | 13.3  | 8.8   |                        |
| <a href="#">December 1983 Tornado</a>  | F4 - LA        | 12/6/1983/03:00-04:00  |        | -35.9 | -19.3 | Bad SJG data           |
| <a href="#">Mid-March 1984 Tornado Outbreak, 3/15/19:00-22:00</a>            | F4 - AR        | 3/15/1984/19:00-20:00  | -1.6   | 8.1   | 7.8   |                        |
|  | F4 - AR        | 3/15/1984/21:00-22:00  | 17     |       | 10.5  | Bad HON data           |
| <a href="#">Carolinas 1984 Tornado Outbreak, 3/28/18:00-22:00</a>            | F4 - SC        | 3/28/1984/18:00-19:00  | -119.1 | -92.6 | -85.8 |                        |
|  | F4 - SC        | 3/28/1984/18:00-19:00  | -119.1 | -92.6 | -85.8 |                        |
|  | F4 - SC        | 3/28/1984/18:00-19:00  | -119.1 | -92.6 | -85.8 |                        |
|  | F4 - SC        | 3/28/1984/19:00-20:00  | -110.9 | -80.6 | -81   |                        |
|  | F4 - SC        | 3/28/1984/19:00-20:00  | -110.9 | -80.6 | -81   |                        |
|  | F4 - SC        | 3/28/1984/20:00-21:00  | -95.3  | -72   | -66.5 |                        |
|  | F4 - SC        | 3/28/1984/20:00-21:00  | -95.3  | -72   | -66.5 |                        |
| <a href="#">Creek-Pawnee Tornado</a>   | F4 - OK        | 4/27/1984/00:00-01:00  | -54.1  | -90.8 | -70.1 |                        |
| <a href="#">Late-April 1984 Tornado Outbreak, 4/27/11:00-19:00</a>           | F4 - OK        | 4/27/1984/11:00-12:00  | -54.8  | -38   | -39.8 |                        |
|  | F4 - WI        | 4/27/1984/17:00-18:00  | -43.2  | -38   | -41.4 |                        |
|  | F4 - WI        | 4/27/1984/18:00-19:00  | -33    | -27   | -31.2 |                        |
| <a href="#">Mannford - New Prue Tornado Outbreak, [1st DST]</a>              | F4 - OK        | 4/29/1984/11:00-12:00  | -44.5  | -21.7 | -34.4 |                        |
| <a href="#">Barnevel Tornado Outbreak, 6/7-8, [last DST]</a>                 | F4 - MO        | 6/7/1984/19:00-20:00   | 3.3    | -4.2  | -3.5  |                        |
|  | F4 - WI        | 6/8/1984/01:00-02:00   | 2.2    | 9     | 0.1   |                        |
| <a href="#">Early-May 1985 Tornado Outbreak, 5/10/18:00-21:00, [1st DST]</a> | F4 - KS        | 5/10/1985/18:00-19:00  | 18.8   |       | 10.1  | Bad HON data           |
|  | F4 - KS        | 5/10/1985/20:00-21:00  | 12.2   |       | 11.2  | Bad HON data           |
| <a href="#">US - Canada Tornado Outbreak, 5/31/18:00-19:00, [last DST]</a>   | F4 - OH and PA | 5/31/1985/15:00-17:00  | 23.4   |       | 22.7  | Averaged; Bad HON data |
|  | F4 - OH and PA | 5/31/1985/16:00-17:00  | 23.2   |       | 23.1  | Bad HON data           |
|  | F4 - PA        | 5/31/1985/16:00-17:00  | 23.2   |       | 23.1  | Bad HON data           |
|  | F4 - OH and PA | 5/31/1985/17:00-18:00  | 27.7   |       | 23.1  | Bad HON data           |
|  | F4 - PA        | 5/31/1985/17:00-18:00  | 27.7   |       | 23.1  | Bad HON data           |
|  | F4 - PA        | 5/31/1985/18:00-19:00  | 34.3   |       | 26.4  | Bad HON data           |
|  | F4 - PA        | 5/31/1985/19:00-20:00  | 37.7   |       | 26.4  | Bad HON data           |
| <a href="#">March 1986 Tornado Outbreak, 3/10-12</a>                         | F4 - MS        | 3/12/1986/15:00-16:00  | -3.9   | 4.6   | 1.2   |                        |
| <a href="#">July 1986 Tornado Outbreak, [1st DST]</a>                        | F4 - NE and IA | 7/28/1986/19:00-21:00  | -20.1  |       | -20.4 | Averaged; Bad HON data |
| <a href="#">Farrar Tornado, [last DST]</a>                                   | F4 - IA        | 9/28/1986/18:00-19:00  | -6     | -11.2 | -10   |                        |
| <a href="#">February 1987 Tornado</a>  | F4 - MS        | 2/28/1987/11:00-12:00  | 0      | -4.4  | -1.2  |                        |
| <a href="#">Sargosa Tornado, [1st DST]</a>                                   | F4 - TX        | 5/22/1987/21:00-22:00  | 12.7   | 9.6   | 10.8  |                        |
| <a href="#">Teton - Yellowstone Tornado, [last DST]</a>                      | F4 - WY        | 7/21/1987/17:00-19:00  | -4.7   | -3.4  | 0     | Averaged               |

|   |                |                        |       |        |       |          |
|---|----------------|------------------------|-------|--------|-------|----------|
| January 1988 Tornado  | F4 - MS        | 1/19/1988/13:00-14:00  | -27   | -18.4  | -21.2 |          |
| Raleigh Tornado Outbreak  | F4 - NC        | 11/28/1988/00:00-01:00 | 19.6  | 8.2    | 5.9   |          |
| December 1988 Tornado   | F4 - TN        | 12/24/1988/08:00-09:00 | -3.1  | 10.1   | 7.8   |          |
| January 1989 Tornado  | F4 - IL and IN | 1/7/1989/18:00-20:00   | 14.5  | 2.2    | 10.9  | Averaged |
| May 1989 Tornado Outbreak, 5/5/17:00-20:00, [1st DST]               | F4 - NC and SC | 5/5/1989/17:00-18:00   | -54   | -40.9  | -44.4 |          |
|   | F4 - NC        | 5/5/1989/17:00-19:00   | -52   | -48.1  | -47.5 | Averaged |
|   | F4 - NC        | 5/5/1989/19:00-20:00   | -50.4 | -70.3  | -51.2 |          |
| Kinney Tornado  | F4 - TX        | 5/17/1989/01:00-02:00  | 5.6   | -8.6   | 2     |          |
| Late-May 1989 Tornado Outbreak, 5/24/19:00-20:00                    | F4 - IA        | 5/24/1989/19:00-20:00  | -64.5 | -28.7  | -50   |          |
|   | F4 - IA        | 5/24/1989/19:00-20:00  | -64.5 | -28.7  | -50   |          |
| Hardin-Grundy Tornado   | F4 - IA        | 5/30/1989/20:00-22:00  | 1.2   | 26.5   | 4.3   | Averaged |
| 1989 Northeastern US Tornado Outbreak, 7/10/12:00-16:00, [last DST] | F4 - NY        | 7/10/1989/12:00-13:00  | 4.3   | 16.5   | 9.8   |          |
|   | F4 - CT        | 7/10/1989/15:00-16:00  | 0.6   | 3.5    | -2.7  |          |
| November 1989 Tornado Outbreak, 11/15-16                            | F4 - AL        | 11/15/1989/18:00-19:00 | 2.7   | -10    | -2.8  |          |
| March 1990 Central US Tornado Outbreak, 3/11-13                     | F5 - KS        | 3/13/1990/18:00-19:00  | -73   | -72.9  | -56.4 |          |
|   | F4 - IA        | 3/13/1990/18:00-20:00  | -74.7 | -72.8  | -51.6 | Averaged |
|   | F4 - NE        | 3/13/1990/19:00-20:00  | -76.3 | -72.6  | -46.8 |          |
|   | F5 - KS        | 3/13/1990/19:00-20:00  | -76.3 | -72.6  | -46.8 |          |
| April 1990 Tornado, [1st DST]                                       | F4 - TX        | 4/25/1990/17:00-18:00  | -14.1 | -40    | -28.8 |          |
| Pecos Tornado   | F4 - TX        | 6/1/1990/18:00-19:00   | -13.6 | -21.7  | -7.4  |          |
| Lower Ohio Valley Tornado Outbreak, 6/2-3                           | F4 - IL        | 6/2/1990/18:00-19:00   | 7.4   | -30.8  | -2.5  |          |
|   | F4 - IN        | 6/2/1990/18:00-20:00   | 7.3   | -33.5  | -3.8  | Averaged |
|   | F4 - IL        | 6/2/1990/19:00-20:00   | 7.2   | -36.2  | -5.2  |          |
|   | F4 - IL and IN | 6/2/1990/19:00-20:00   | 7.2   | -36.2  | -5.2  |          |
|   | F4 - IN        | 6/2/1990/19:00-21:00   | 8.6   | -35.4  | -4.5  | Averaged |
|   | F4 - IN        | 6/2/1990/20:00-21:00   | 10    | -33.6  | -3.8  |          |
|   | F4 - IN and OH | 6/2/1990/22:00-23:00   | 11.5  | -24.7  | -2.5  |          |
| Mid-June 1990 Tornado   | F4 - NE        | 6/15/1990/20:00-21:00  | -27.7 | -31.4  | -34.4 |          |
| Plainfield Tornado Outbreak, [last DST]                             | F5 - IL        | 8/28/1990/16:00-17:00  | 5.1   | -15.5  | -7.7  |          |
| March 1991 Tornado  | F4 - KS        | 3/26/1991/20:00-21:00  | -87.5 | -100.1 | -92.8 |          |
| April 1991 Tornado Outbreak, 4/26-27, [DST]                         | F5 - KS        | 4/26/1991/18:00-20:00  | -5.3  | -24.5  | -16.6 | Averaged |
|   | F4 - KS        | 4/26/1991/19:00-20:00  | -11.4 | -28.5  | -20.7 |          |
|   | F4 - OK        | 4/26/1991/19:00-20:00  | -11.4 | -28.5  | -20.7 |          |
|   | F4 - OK        | 4/26/1991/20:00-21:00  | -31.9 | -39.3  | -27.8 |          |
|   | F4 - OK        | 4/26/1991/22:00-23:00  | -46.3 | -52.4  | -35.5 |          |
| November 1991 Tornado   | F4 - MO        | 11/29/1991/20:00-21:00 | 0.6   | -5.9   | -6.2  |          |
| February 1992 Tornado   | F4 - OH        | 2/18/1992/17:00-18:00  | 25.6  | 19.3   | 17.7  |          |
| March 1992 Tornado  | F4 - MS        | 3/9/1992/23:00-00:00   | 12    | 6.7    | 7.8   |          |
| May 1992 Tornado, [1st DST]   | F4 - OK        | 5/1/1992/17:00-18:00   | -92.5 | -102.3 | -89.2 |          |
| Mid-June 1992 Tornado Outbreak, 6/15-16                             | F4 - KS        | 6/15/1992/20:00-21:00  | -10.5 | -13.4  | -10.4 |          |
|   | F4 - KS        | 6/15/1992/23:00-00:00  | -4.8  | -15    | -10.5 |          |
|   | F4 - MN        | 6/16/1992/18:00-19:00  | -21.7 | 2.3    | -2.8  |          |
|   | F5 - MN        | 6/16/1992/18:00-19:00  | -21.7 | 2.3    | -2.8  |          |
| Late-June 1992 Tornado, [last DST]                                  | F4 - TX        | 6/27/1992/20:00-21:00  | 16.2  | 18.6   | 9.8   |          |
| November 1992 Tornado Outbreak, 11/21-23                            | F4 - TX        | 11/21/1992/17:00-18:00 | 13    | -3.7   | 4.9   |          |
|   | F4 - MS        | 11/22/1992/01:00-03:00 | 20.2  | 29.1   | 28.8  | Averaged |
|   | F4 - MS        | 11/22/1992/02:00-03:00 | 20.3  | 29.6   | 28.8  |          |
|   | F4 - GA        | 11/22/1992/15:00-16:00 | -19.5 | -2.1   | -9.4  |          |
|   | F4 - KY and IN | 11/22/1992/16:00-18:00 | -23.9 | -7.3   | -11   | Averaged |
|   | F4 - GA        | 11/22/1992/22:00-23:00 | -54.3 | -30.5  | -27.4 |          |
| Catoosa Tornado Outbreak, [1st DST]                                 | F4 - OK        | 4/24/1993/19:00-20:00  | 22.3  | 34.3   | 22.9  |          |
| Early-May 1993 Tornado  | F4 - KS        | 5/5/1993/21:00-22:00   | 17.5  | 28.9   | 18.6  |          |
| Russel-Osborne Tornado  | F4 - KS        | 5/7/1993/19:00-20:00   | -6.7  | 15.1   | -2.6  |          |
| June 1993 Tornado Outbreak, 6/7/17:00-18:00                         | F4 - SD        | 6/7/1993/17:00-18:00   | -16.8 | -20    | -17.9 |          |
|   | F4 - SD        | 6/7/1993/17:00-18:00   | -16.8 | -20    | -17.9 |          |
| Virginia Tornado Outbreak, [last DST]                               | F4 - VA        | 8/6/1993/11:00-12:00   | -34.6 | -14.2  | -19.8 |          |
| March 1994 Tornado Outbreak, 3/27/11:00-13:00                       | F4 - AL        | 3/27/1994/11:00-13:00  | 9.6   | -2.6   | 5.5   | Averaged |
|   | F4 - GA        | 3/27/1994/12:00-13:00  | 13    | -2     | 6.6   |          |
| April 1994 Tornado Outbreak, 4/25-27, [1st DST]                     | F4 - TX        | 4/25/1994/10:00-11:00  | 3.5   | -0.5   | 0.3   |          |
|   | F4 - IN        | 4/26/1994/11:00-13:00  | -11.9 | -1.1   | -2.7  | Averaged |
| July 1994 Tornado, [last DST]                                       | F4 - WI        | 7/5/1994/17:00-18:00   | 6.4   | -2.7   | -3.2  |          |

|  |                |                        |        |        |        |          |
|--|----------------|------------------------|--------|--------|--------|----------|
| <a href="#">May 1995 Tornado Outbreak, 5/13/17:00-20:00, [1st DST]</a>       | F4 - IL        | 5/13/1995/17:00-18:00  | -33.4  | -47.6  | -32.9  |          |
|  | F4 - IL        | 5/13/1995/18:00-20:00  | -42.4  | -54.7  | -39.2  | Averaged |
| <a href="#">Mid-May 1995 Tornado Outbreak, 5/18/17:00-19:00</a>              | F4 - TN        | 5/18/1995/17:00-19:00  | -7.5   | -24.7  | -15.7  | Averaged |
|  | F4 - GA        | 5/18/1995/18:00-19:00  | -5.9   | -22.4  | -14.6  |          |
| <a href="#">Late-May 1995 Tornado Outbreak, 5/27/20:00-22:00</a>             | F4 - IA        | 5/27/1995/20:00-21:00  | 1.8    | -5.6   | -3.5   |          |
|  | F4 - IA        | 5/27/1995/20:00-22:00  | 0.3    | -6.3   | -4.8   | Averaged |
|  | F4 - IA        | 5/27/1995/20:00-22:00  | 0.3    | -6.3   | -4.8   | Averaged |
| <a href="#">Late-May 1995 Tornado</a>  | F4 - MA        | 5/29/1995/17:00-18:00  | 9.4    | 7.4    | 7.1    |          |
| <a href="#">June 1995 Tornado Outbreak, 6/8/17:00-21:00, [last DST]</a>      | F4 - TX        | 6/8/1995/17:00-18:00   | 24.9   | 15.1   | 15.1   |          |
|  | F4 - TX        | 6/8/1995/19:00-20:00   | 26.8   | 21.5   | 17.7   |          |
|  | F4 - TX        | 6/8/1995/20:00-21:00   | 21.1   | 19.7   | 14.9   |          |
| <a href="#">Marion 1995 Tornado</a>  | F4 - SC        | 11/7/1995/16:00-17:00  | -7.1   | -5.7   | -7.3   |          |
| <a href="#">April 1996 Tornado, [1st DST]</a>                                | F4 - AR        | 4/14/1996/20:00-21:00  | -56.3  | -28.8  | -23.5  |          |
| <a href="#">Kentucky Tornado Outbreak</a>                                    | F4 - KY        | 5/28/1996/18:00-19:00  | 13.6   | -2     | 9.9    |          |
| <a href="#">Oakfield Tornado Outbreak, [last DST]</a>                        | F5 - WI        | 7/18/1996/20:00-21:00  | 0.7    | 4.7    | -3.5   |          |
| <a href="#">January 1997 Tornado Outbreak, 1/23-25</a>                       | F4 - TN        | 1/24/1997/19:00-20:00  | 4.9    | 1.7    | -0.8   |          |
| <a href="#">March 1997 Tornado Outbreak, 2/28-3/1</a>                        | F4 - AR        | 3/1/1997/16:00-17:00   | -24.5  | -26.7  | -21.2  |          |
|  | F4 - AR        | 3/1/1997/16:00-17:00   | -24.5  | -26.7  | -21.2  |          |
|  | F4 - AR        | 3/1/1997/17:00-18:00   | -16.9  | -23.3  | -19.4  |          |
|  | F4 - AR        | 3/1/1997/17:00-18:00   | -16.9  | -23.3  | -19.4  |          |
|  | F4 - AR        | 3/1/1997/20:00-21:00   | -22.1  | -23.7  | -23.5  |          |
|  | F4 - TN        | 3/1/1997/21:00-22:00   | -17.9  | -25.6  | -22.3  |          |
|  | F4 - TN        | 3/1/1997/21:00-22:00   | -17.9  | -25.6  | -22.3  |          |
| <a href="#">1997 Central Texas Tornado Outbreak, 5/27/16:00-19:00, [DST]</a> | F5 - TX        | 5/27/1997/16:00-17:00  | -51.5  | -37    | -46.5  |          |
|  | F4 - TX        | 5/27/1997/17:00-19:00  | -47    | -35.5  | -44.3  | Averaged |
| <a href="#">Comfrey - St. Peter Tornado Outbreak</a>                         | F4 - MN        | 3/29/1988/17:00-19:00  | -43.35 | -41.9  | -40.2  | Averaged |
| <a href="#">Early-April 1998 Tornado Outbreak, 4/6-9, [1st DST]</a>          | F5 - AL        | 4/8/1998/19:00-20:00   | -1.6   | 7.6    | 2.1    |          |
| <a href="#">Mid-April 1998 Tornado Outbreak, 4/15-16</a>                     | F4 - AR        | 4/16/1998/03:00-05:00  | 10.4   | 19.1   | 18.3   | Averaged |
|  | F4 - TN        | 4/16/1998/17:00-19:00  | 14.2   | 19.7   | 16.3   | Averaged |
| <a href="#">Caldwell Tornado</a>   | F4 - NC        | 5/7/1998/16:00-18:00   | -25.6  | -16.6  | -20.8  | Averaged |
| <a href="#">Late-May 1998 Tornado Outbreak and Derecho, 5/30-31</a>          | F4 - SD        | 5/30/1998/21:00-22:00  | -18.1  | -23.1  | -20.5  |          |
| <a href="#">Eastern Tornado Outbreak</a>                                     | F4 - PA and MD | 6/2/1998/20:00-21:00   | -3.9   | 4.1    | 0.6    |          |
| <a href="#">Mid-June 1998 Tornado, [last DST]</a>                            | F4 - IN        | 6/11/1998/18:00-19:00  | 6.6    | 7.2    | 5.5    |          |
| <a href="#">Mid-January 1999 Tornado Outbreak, 1/17-18</a>                   | F4 - MS        | 1/17/1999/19:00-20:00  | 7.8    | -6.3   | 3.7    |          |
| <a href="#">Late-January 1999 Tornado</a>                                    | F4 - AR        | 1/21/1999/19:00-20:00  | 9.2    | -13.8  | -0.8   |          |
| <a href="#">Easter Weekend Tornado Outbreak, 4/2-3</a>                       | F4 - LA        | 4/3/1999/16:00-18:00   | -5     | -2.5   | 1.1    | Averaged |
| <a href="#">April 1999 Tornado Outbreak, 4/8-9, [1st DST]</a>                | F4 - IA        | 4/8/1999/15:00-17:00   | 9.8    | 1.3    | -0.8   | Averaged |
|  | F4 - IA        | 4/8/1999/16:00-17:00   | 15.7   | -3.7   | -1.9   |          |
|  | F4 - OH        | 4/9/1999/04:00-05:00   | 3.9    | 7.6    | 2.9    |          |
| <a href="#">Oklahoma Tornado Outbreak, 5/2-8</a>                             | F5 - OK        | 5/3/1999/19:00-20:00   | 2.1    | -30.1  | -10    |          |
|  | F4 - KS        | 5/3/1999/21:00-22:00   | 4.8    | -15.7  | -4.5   |          |
|  | F4 - OK        | 5/3/1999/22:00-23:00   | 3.7    | -9.2   | -5.6   |          |
|  | F4 - OK        | 5/3/1999/22:00-23:00   | 3.7    | -9.2   | -5.6   |          |
|  | F4 - TN        | 5/5/1999/21:00-22:00   | 28     | 27.6   | 24.4   |          |
| <a href="#">Mason 1999 Tornado</a>   | F4 - TX        | 5/11/1999/19:00-20:00  | 12.2   | 21.5   | 16.1   |          |
| <a href="#">Pembina Tornado, [last DST]</a>                                  | F4 - ND        | 6/6/1999/16:00-17:00   | 28.2   | 22.5   | 20.9   |          |
| <a href="#">July 2000 Tornado, [1st DST]</a>                                 | F4 - MN        | 7/25/2000/18:00-20:00  | -5.6   | -37.6  | -18.8  | Averaged |
| <a href="#">September 2000 Tornado, [last DST]</a>                           | F4 - OH        | 9/20/2000/18:00-19:00  | -12.3  | -20.4  | -21.3  |          |
| <a href="#">Tuscaloosa Tornado Outbreak</a>                                  | F4 - AL        | 12/16/2000/13:00-15:00 | 26.5   | 10.2   | 18.1   | Averaged |
| <a href="#">April 2001 Tornado, [1st DST]</a>                                | F4 - KS        | 4/21/2001/22:00-23:00  | 16.9   | 15.2   | 15.3   |          |
| <a href="#">June 2001 Tornado</a>  | F4 - NE        | 6/13/2001/20:00-21:00  | -1.2   | -0.2   | -5.2   |          |
| <a href="#">September 2001 Tornado Outbreak, [last DST]</a>                  | F4 - VA        | 9/24/2001/14:00-15:00  | 5.8    | -18.7  | -11.5  |          |
| <a href="#">November 2001 Tornado Outbreak, 11/23-24</a>                     | F4 - MS        | 11/24/2001/03:00-04:00 | 36.6   | 35.6   | 15.3   |          |
|  | F4 - AL        | 11/24/2001/15:00-16:00 | -188.5 | -196.4 | -194.3 |          |
|  | F4 - MS        | 11/24/2001/19:00-20:00 | -144.5 | -141.4 | -140.5 |          |
| <a href="#">Carter-Butler Tornado, [1st DST]</a>                             | F4 - MO        | 4/24/2002/17:00-18:00  | -6.9   | -15.9  | -11.4  |          |
| <a href="#">Midwest to Mid-Atlantic Tornado Outbreak, 4/27-28</a>            | F4 - MD        | 4/28/2002/18:00-20:00  | -5.6   | 6.9    | -4.5   | Averaged |
| <a href="#">June 2002 Tornado</a>  | F4 - SD        | 6/23/2002/21:00-22:00  | 1.1    | -9.4   | -1.7   |          |
| <a href="#">August 2002 Tornado, [last DST]</a>                              | F4 - ND        | 8/11/2002/17:00-18:00  | -2.5   | -18.6  | -12.4  |          |
| <a href="#">Veteran's Day Tornado Outbreak, 11/9-11</a>                      | F4 - OH        | 11/10/2002/15:00-16:00 | 10.7   | 0.9    | 3.5    |          |
| <a href="#">May 2003 Tornado Outbreak, 5/3-11, [DST]</a>                     | F4 - KS and MO | 5/4/2003/17:00-18:00   | 12.6   | 13.9   | 8.2    |          |

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