

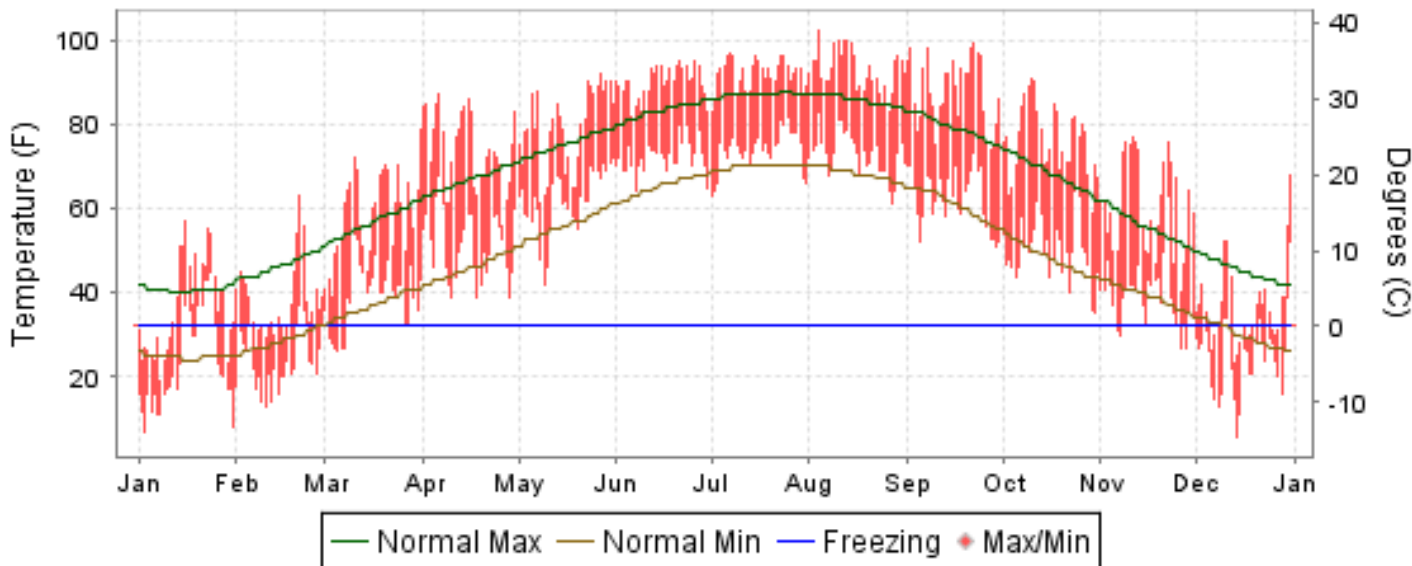


# 2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

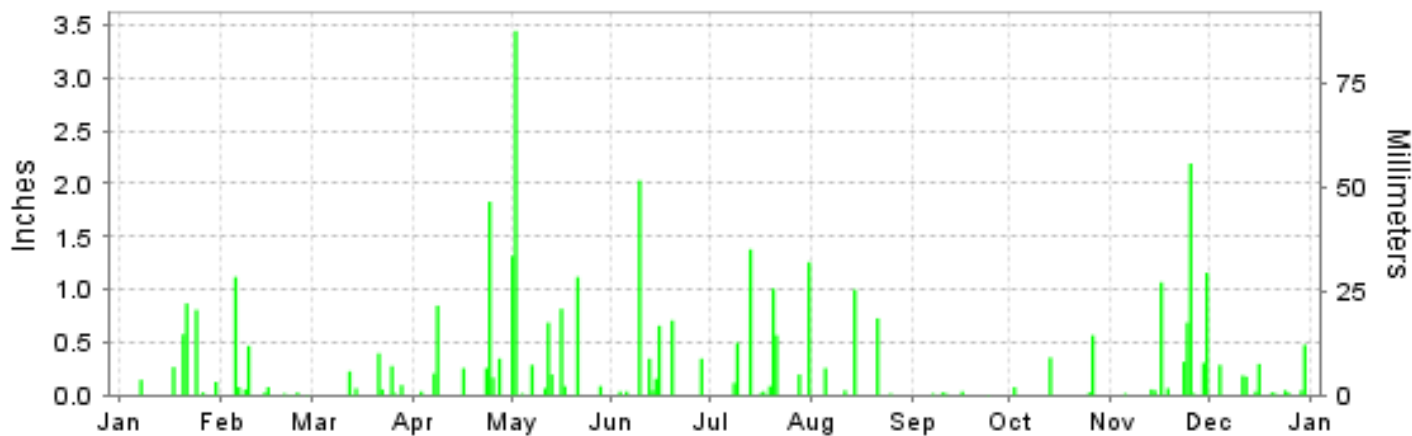
ISSN 0198-2257

## LOUISVILLE, KENTUCKY (KSDF)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2010

## LOUISVILLE (KSDF)

LATITUDE: 38° 10'N      LONGITUDE: -85° 43'W      ELEVATION (FT): GRND: 480    BARO: 484      TIME ZONE: EASTERN (UTC -5)      WBAN: 93821

| ELEMENT                  |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR   |  |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM          | 36.6  | 37.9  | 58.8  | 74.0  | 79.1  | 89.9  | 91.9  | 92.8  | 87.8  | 76.2  | 60.5  | 36.8   | 68.5   |  |
|                          | HIGHEST DAILY MAXIMUM       | 57    | 63    | 79    | 87    | 92    | 95    | 97    | 102   | 99    | 91    | 77    | 68     | 102    |  |
|                          | DATE OF OCCURRENCE          | 16    | 21    | 31    | 06    | 27    | 26+   | 07    | 04    | 22    | 10    | 11    | 31     | AUG 04 |  |
|                          | MEAN DAILY MINIMUM          | 23.5  | 23.9  | 39.2  | 51.3  | 61.8  | 72.2  | 73.8  | 72.8  | 62.4  | 50.0  | 39.2  | 24.8   | 49.6   |  |
|                          | LOWEST DAILY MINIMUM        | 7     | 13    | 26    | 39    | 42    | 64    | 63    | 61    | 51    | 35    | 27    | 6      | 6      |  |
|                          | DATE OF OCCURRENCE          | 03    | 10    | 05    | 28+   | 09    | 07    | 01    | 27    | 29    | 30    | 28+   | 14     | DEC 14 |  |
|                          | AVERAGE DRY BULB            | 30.1  | 30.9  | 49.0  | 62.7  | 70.5  | 81.1  | 82.9  | 82.8  | 75.1  | 63.1  | 49.9  | 30.8   | 59.1   |  |
|                          | MEAN WET BULB               | 27.2  | 27.8  | 42.9  | 53.3  | 62.9  | 71.9  | 72.8  | 71.5  | 62.3  | 51.1  | 43.1  | 28.1   | 51.2   |  |
|                          | MEAN DEW POINT              | 21.6  | 22.0  | 35.5  | 44.0  | 57.5  | 67.2  | 68.0  | 66.0  | 53.6  | 39.8  | 35.2  | 22.5   | 44.4   |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 4     | 18    | 24    | 23    | 14    | 2     | 0     | 0      | 85     |  |
|                          | MAXIMUM <= 32°              | 13    | 9     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 12     | 34     |  |
| MINIMUM <= 32°           | 22                          | 24    | 7     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 6     | 26    | 85     |        |  |
| MINIMUM <= 0°            | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |        |  |
| H/C                      | HEATING DEGREE DAYS         | 1075  | 949   | 489   | 131   | 39    | 0     | 0     | 0     | 2     | 115   | 450   | 1053   | 4303   |  |
|                          | COOLING DEGREE DAYS         | 0     | 0     | 0     | 70    | 218   | 492   | 561   | 560   | 311   | 63    | 5     | 0      | 2280   |  |
| RH                       | MEAN (PERCENT)              | 73    | 71    | 64    | 54    | 66    | 64    | 63    | 60    | 51    | 48    | 61    | 72     | 62     |  |
|                          | HOUR 01 LST                 | 76    | 77    | 73    | 62    | 75    | 74    | 72    | 72    | 62    | 58    | 68    | 77     | 71     |  |
|                          | HOUR 07 LST                 | 80    | 80    | 79    | 68    | 72    | 73    | 73    | 72    | 66    | 65    | 72    | 79     | 73     |  |
|                          | HOUR 13 LST                 | 66    | 63    | 50    | 40    | 54    | 52    | 51    | 45    | 33    | 31    | 48    | 65     | 50     |  |
|                          | HOUR 19 LST                 | 70    | 66    | 57    | 46    | 61    | 57    | 57    | 54    | 44    | 44    | 59    | 71     | 57     |  |
| S                        | PERCENT POSSIBLE SUNSHINE   |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0      | 4      |  |
|                          | THUNDERSTORMS               | 1     | 0     | 1     | 3     | 9     | 7     | 11    | 6     | 1     | 2     | 2     | 0      | 43     |  |
| CLOUDNESS                | SUNRISE-SUNSET: (OKTAS)     |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | SATELLITE (> 12,000 FT.)    |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)  |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| SATELLITE (> 12,000 FT.) |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| CLEAR                    |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| PARTLY CLOUDY            |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| CLOUDY                   |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| PR                       | MEAN STATION PRESS. (IN.)   | 29.63 | 29.48 | 29.41 | 29.44 | 29.46 | 29.44 | 29.49 | 29.45 | 29.47 | 29.50 | 29.56 | 29.58  | 29.49  |  |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 30.14 | 30.02 | 29.94 | 29.95 | 29.97 | 29.95 | 30.00 | 29.96 | 29.99 | 30.02 | 30.09 | 30.12  | 30.01  |  |
| WINDS                    | RESULTANT SPEED (MPH)       | 3.0   | 4.2   | 0.6   | 3.4   | 2.0   | 3.1   | 2.0   | 0.9   | 1.6   | 2.0   | 1.6   | 2.0    | 1.7    |  |
|                          | RES. DIR. (TENS OF DEGS.)   | 28    | 29    | 28    | 21    | 19    | 23    | 20    | 08    | 26    | 28    | 23    | 28     | 25     |  |
|                          | MEAN SPEED (MPH)            | 7.3   | 7.5   | 6.9   | 7.9   | 6.9   | 6.9   | 6.2   | 5.5   | 6.8   | 6.6   | 6.8   | 7.9    | 6.9    |  |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 29    | 29    | 36    | 19    | 13    | 23    | 22    | 01    | 29    | 36    | 19    | 29     | 29     |  |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | SPEED (MPH)                 | 25    | 30    | 26    | 40    | 38    | 38    | 31    | 26    | 28    | 39    | 29    | 29     | 40     |  |
|                          | DIR. (TENS OF DEGS.)        | 24    | 28    | 17    | 22    | 15    | 25    | 23    | 27    | 23    | 28    | 20    | 17     | 22     |  |
|                          | DATE OF OCCURRENCE          | 25    | 09    | 28    | 07    | 01    | 15    | 17    | 14    | 24    | 26    | 22    | 31     | APR 07 |  |
|                          | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | SPEED (MPH)                 | 39    | 37    | 37    | 48    | 45    | 51    | 41    | 37    | 37    | 49    | 37    | 38     | 51     |  |
| DIR. (TENS OF DEGS.)     | 26                          | 27    | 36    | 22    | 28    | 25    | 22    | 01    | 28    | 19    | 20    | 16    | 25     |        |  |
| DATE OF OCCURRENCE       | 25                          | 09    | 25    | 07    | 13    | 15    | 17    | 14    | 16    | 26    | 22    | 31    | JUN 15 |        |  |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | TOTAL (IN.)                 | 2.86  | 1.91  | 1.17  | 3.97  | 8.16  | 4.39  | 5.21  | 2.06  | 0.12  | 1.04  | 5.96  | 1.66   | 38.51  |  |
|                          | GREATEST 24-HOUR (IN.)      | 0.93  | 1.12  | 0.46  | 1.83  | 3.44  | 2.03  | 1.38  | 1.00  | 0.05  | 0.57  | 2.21  | 0.53   | 3.44   |  |
|                          | DATE OF OCCURRENCE          | 20-21 | 05    | 21-22 | 24    | 02    | 09    | 13    | 14    | 10-11 | 26    | 25-26 | 29-30  | MAY 02 |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | PRECIPITATION 0.01          | 9     | 10    | 8     | 8     | 12    | 9     | 12    | 5     | 5     | 4     | 11    | 11     | 104    |  |
| PRECIPITATION 0.10       | 6                           | 2     | 4     | 7     | 7     | 6     | 7     | 3     | 0     | 2     | 6     | 5     | 55     |        |  |
| PRECIPITATION 1.00       | 0                           | 1     | 0     | 1     | 3     | 1     | 3     | 1     | 0     | 0     | 3     | 0     | 13     |        |  |
| SNOWFALL                 | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
|                          | TOTAL (IN.)                 | 7.1   | 13.9  | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 6.2    | 27.3   |  |
|                          | GREATEST 24-HOUR (IN.)      | 3.3   | 6.5   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 2.4    | 6.5    |  |
|                          | DATE OF OCCURRENCE          | 30    | 09    | 26    |       |       |       |       |       |       |       | 26    | 12     | FEB 09 |  |
|                          | MAXIMUM SNOW DEPTH (IN.)    | 3     | 7     | T     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | T     | 2      | 7      |  |
|                          | DATE OF OCCURRENCE          | 31+   | 09    | 26    |       |       |       |       |       |       |       | 26+   | 12     | FEB 09 |  |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |  |
| SNOWFALL >= 1.0          | 2                           | 4     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 8      |        |  |

# NORMALS, MEANS, AND EXTREMES

## LOUISVILLE (KSDF)

**LATITUDE:**  
38 ° 10'N

**LONGITUDE:**  
-85 ° 43'W

**ELEVATION (FT):**  
GRND: 480 BARO: 484

**TIME ZONE:**  
EASTERN (UTC -5)

**WBAN: 93821**

|                       | ELEMENT                                     | POR      | JAN        | FEB        | MAR        | APR        | MAY        | JUN        | JUL        | AUG        | SEP        | OCT        | NOV        | DEC        | YEAR        |
|-----------------------|---|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| TEMPERATURE °F        | NORMAL DAILY MAXIMUM                        | 30       | 41.0       | 46.6       | 56.8       | 66.8       | 75.4       | 83.3       | 87.0       | 85.8       | 79.4       | 68.4       | 55.9       | 45.4       | 66.0        |
|                       | MEAN DAILY MAXIMUM                          | 63       | 41.8       | 46.2       | 56.1       | 67.9       | 76.6       | 84.6       | 88.0       | 87.3       | 80.7       | 69.4       | 56.3       | 45.4       | 66.7        |
|                       | HIGHEST DAILY MAXIMUM                       | 63       | 77         | 77         | 86         | 91         | 95         | 102        | 106        | 105        | 104        | 93         | 84         | 76         | 106         |
|                       | YEAR OF OCCURRENCE                          |          | 1950       | 2000       | 1981       | 1960       | 1959       | 1952       | 1999       | 2007       | 1954       | 2007       | 1958       | 1982       | JUL 1999    |
|                       | MEAN OF EXTREME MAXS.                       | 63       | 64.5       | 68.0       | 77.6       | 84.6       | 88.5       | 93.6       | 95.7       | 95.7       | 92.4       | 84.5       | 75.2       | 66.2       | 82.2        |
|                       | NORMAL DAILY MINIMUM                        | 30       | 24.9       | 28.5       | 37.1       | 46.0       | 56.1       | 65.1       | 69.8       | 68.2       | 60.9       | 48.5       | 39.3       | 29.9       | 47.9        |
|                       | MEAN DAILY MINIMUM                          | 63       | 25.4       | 28.2       | 36.3       | 46.3       | 55.6       | 64.3       | 68.5       | 67.0       | 59.5       | 47.4       | 37.8       | 29.3       | 47.1        |
|                       | LOWEST DAILY MINIMUM                        | 63       | -22        | -19        | -1         | 22         | 31         | 42         | 0          | 0          | 0          | 23         | -1         | -15        | -22         |
|                       | YEAR OF OCCURRENCE                          |          | 1994       | 1951       | 1960       | 1982       | 1966       | 1966       | 1996       | 1996       | 1996       | 1952       | 1950       | 1989       | JAN 1994    |
|                       | MEAN OF EXTREME MINS.                       | 63       | 4.5        | 9.1        | 19.4       | 30.7       | 40.5       | 52.0       | 58.0       | 56.5       | 44.6       | 32.0       | 21.4       | 10.2       | 31.6        |
|                       | NORMAL DRY BULB                             | 30       | 33.0       | 37.6       | 46.9       | 56.4       | 65.8       | 74.2       | 78.4       | 77.0       | 70.1       | 58.5       | 47.6       | 37.6       | 56.9        |
|                       | MEAN DRY BULB                               | 63       | 33.6       | 37.2       | 46.2       | 57.1       | 66.1       | 74.5       | 78.3       | 77.1       | 70.1       | 58.4       | 47.0       | 37.3       | 56.9        |
|                       | MEAN WET BULB                               | 27       | 30.2       | 32.9       | 40.2       | 49.0       | 58.7       | 66.7       | 69.8       | 68.9       | 62.1       | 51.4       | 42.0       | 33.2       | 50.4        |
|                       | MEAN DEW POINT                              | 27       | 26.7       | 29.0       | 35.7       | 44.6       | 55.6       | 64.2       | 67.5       | 66.6       | 59.5       | 48.4       | 38.6       | 30.2       | 47.2        |
|                       | NORMAL NO. DAYS WITH:                       |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | MAXIMUM >= 90                               | 30       | 0.0        | 0.0        | 0.0        | *          | 0.6        | 6.5        | 12.3       | 10.4       | 3.4        | 0.0        | 0.0        | 0.0        | 33.2        |
| MAXIMUM <= 32         | 30  | 8.2      | 4.5        | 0.6        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.2        | 4.2        | 17.7       |             |
| MINIMUM <= 32         | 30  | 23.1     | 17.8       | 11.1       | 2.1        | *          | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 8.7        | 18.8       | 82.6       |             |
| MINIMUM <= 0          | 30  | 0.9      | 0.2        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.3        | 1.4        |             |
| H/C                   | NORMAL HEATING DEG. DAYS                    | 30       | 992        | 779        | 569        | 280        | 84         | 6          | 0          | 1          | 36         | 240        | 527        | 838        | 4352        |
|                       | NORMAL COOLING DEG. DAYS                    | 30       | 0          | 0          | 6          | 24         | 109        | 287        | 421        | 374        | 189        | 29         | 3          | 1          | 1443        |
| RH                    | NORMAL (PERCENT)                            | 30       | 71         | 68         | 64         | 62         | 68         | 69         | 70         | 72         | 72         | 70         | 70         | 73         | 69          |
|                       | HOURLY 01 LST                               | 30       | 74         | 73         | 69         | 69         | 77         | 79         | 80         | 82         | 81         | 79         | 75         | 75         | 76          |
|                       | HOURLY 07 LST                               | 30       | 78         | 77         | 76         | 76         | 82         | 83         | 85         | 87         | 88         | 85         | 79         | 79         | 81          |
|                       | HOURLY 13 LST                               | 30       | 65         | 61         | 56         | 52         | 55         | 57         | 58         | 58         | 57         | 56         | 60         | 66         | 58          |
|                       | HOURLY 19 LST                               | 30       | 68         | 63         | 56         | 53         | 57         | 59         | 60         | 61         | 62         | 62         | 65         | 69         | 61          |
| S                     | PERCENT POSSIBLE SUNSHINE                   | 48       | 41         | 49         | 51         | 56         | 61         | 67         | 68         | 67         | 65         | 61         | 46         | 40         | 56          |
| W/O                   | MEAN NO. DAYS WITH:                         |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | HEAVY FOG(VISBY <= 1/4 MI)<br>THUNDERSTORMS | 47<br>63 | 0.9<br>1.0 | 0.8<br>1.2 | 0.4<br>3.1 | 0.2<br>4.5 | 0.4<br>7.0 | 0.4<br>7.8 | 0.3<br>8.4 | 0.6<br>6.9 | 0.9<br>3.3 | 0.9<br>1.6 | 0.5<br>1.5 | 0.5<br>0.5 | 6.8<br>46.8 |
| CLOUDNESS             | MEAN:                                       |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | SUNRISE-SUNSET (OKTAS)                      |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | MIDNIGHT-MIDNIGHT (OKTAS)                   |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | MEAN NO. DAYS WITH:                         |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | CLEAR                                       |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | PARTLY CLOUDY                               |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | CLOUDY                                      | 1        | 1.0        | 4.0        | 6.0        |            | 3.0        | 1.0        |            |            | 3.0        | 4.0        |            | 2.0        |             |
| PR                    | MEAN STATION PRESSURE(IN)                   | 27       | 29.60      | 29.57      | 29.52      | 29.46      | 29.46      | 29.46      | 29.48      | 29.50      | 29.53      | 29.56      | 29.57      | 29.60      | 29.53       |
|                       | MEAN SEA-LEVEL PRES. (IN)                   | 27       | 30.14      | 30.11      | 30.06      | 29.98      | 29.98      | 29.97      | 29.99      | 30.01      | 30.04      | 30.08      | 30.11      | 30.14      | 30.05       |
| WINDS                 | MEAN SPEED (MPH)                            | 27       | 9.1        | 9.1        | 9.1        | 9.0        | 7.7        | 7.1        | 6.6        | 6.3        | 6.4        | 7.0        | 8.2        | 8.4        | 7.8         |
|                       | PREVAIL.DIR(TENS OF DEGS)                   | 41       | 29         | 30         | 30         | 20         | 19         | 19         | 22         | 01         | 01         | 15         | 19         | 19         | 01          |
|                       | MAXIMUM 2-MINUTE:                           |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | SPEED (MPH)                                 | 16       | 45         | 46         | 47         | 56         | 54         | 54         | 55         | 47         | 53         | 40         | 44         | 40         | 56          |
|                       | DIR. (TENS OF DEGS)                         |          | 26         | 28         | 21         | 22         | 30         | 04         | 36         | 21         | 22         | 29         | 23         | 27         | 22          |
|                       | YEAR OF OCCURRENCE                          |          | 2008       | 2008       | 2006       | 1999       | 2006       | 1998       | 2004       | 1999       | 2008       | 2001       | 1998       | 2008       | APR 1999    |
|                       | MAXIMUM 3-SECOND                            |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | SPEED (MPH)                                 | 16       | 58         | 58         | 56         | 67         | 64         | 60         | 64         | 56         | 75         | 49         | 49         | 54         | 75          |
| DIR. (TENS OF DEGS)   |   | 27       | 25         | 22         | 28         | 30         | 04         | 36         | 22         | 22         | 19         | 22         | 28         | 22         |             |
| YEAR OF OCCURRENCE    |   | 2008     | 2009       | 2006       | 2003       | 2006       | 1998       | 2004       | 1999       | 2008       | 2010       | 1998       | 2008       | SEP 2008   |             |
| PRECIPITATION         | NORMAL (IN)                                 | 30       | 3.28       | 3.25       | 4.41       | 3.91       | 4.88       | 3.76       | 4.30       | 3.41       | 3.05       | 2.79       | 3.81       | 3.69       | 44.54       |
|                       | MAXIMUM MONTHLY (IN)                        | 63       | 11.38      | 9.02       | 14.91      | 11.10      | 11.57      | 10.11      | 10.05      | 8.79       | 10.49      | 8.86       | 9.12       | 8.86       | 14.91       |
|                       | YEAR OF OCCURRENCE                          |          | 1950       | 1989       | 1964       | 1970       | 1990       | 1960       | 1979       | 1974       | 1979       | 2007       | 1957       | 1990       | MAR 1964    |
|                       | MINIMUM MONTHLY (IN)                        | 63       | 0.45       | 0.76       | 1.02       | 0.76       | 1.37       | 0.49       | 0.34       | 0.23       | 0.01       | 0.39       | 0.72       | 0.65       | 0.01        |
|                       | YEAR OF OCCURRENCE                          |          | 1981       | 1978       | 1966       | 1976       | 1977       | 1984       | 1999       | 1953       | 1995       | 1987       | 1976       | 1976       | SEP 1995    |
|                       | MAXIMUM IN 24 HOURS (IN)                    | 63       | 3.99       | 3.66       | 7.22       | 4.85       | 4.60       | 5.14       | 5.46       | 4.53       | 5.28       | 4.55       | 3.58       | 2.79       | 7.22        |
|                       | YEAR OF OCCURRENCE                          |          | 2000       | 1990       | 1997       | 1970       | 1961       | 1960       | 1979       | 2009       | 2002       | 2007       | 1948       | 1978       | MAR 1997    |
|                       | NORMAL NO. DAYS WITH:                       |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
|                       | PRECIPITATION >= 0.01                       | 30       | 11.0       | 10.5       | 12.9       | 11.7       | 12.2       | 10.4       | 9.9        | 8.3        | 8.8        | 7.5        | 10.6       | 11.8       | 125.6       |
| PRECIPITATION >= 1.00 | 30  | 0.7      | 0.7        | 0.8        | 0.8        | 1.3        | 0.8        | 1.2        | 0.8        | 0.7        | 0.7        | 1.0        | 1.0        | 10.5       |             |
| SNOWFALL              | NORMAL (IN)                                 | 30       | 5.1        | 4.5        | 2.1        | 0.2        | 0.*        | 0.0        | 0.0        | 0.0        | 0.0        | 0.1        | 0.6        | 2.0        | 14.6        |
|                       | MAXIMUM MONTHLY (IN)                        | 63       | 28.4       | 19.3       | 22.9       | 1.6        | T          | T          | T          | T          | 0.0        | 2.4        | 13.2       | 10.0       | 28.4        |
|                       | YEAR OF OCCURRENCE                          |          | 1978       | 1998       | 1960       | 1973       | 1989       | 1993       | 1994       | 2009       |            | 1993       | 1966       | 2004       | JAN 1978    |
|                       | MAXIMUM IN 24 HOURS (IN)                    | 63       | 15.9       | 11.0       | 12.1       | 1.6        | T          | T          | T          | T          | 0.0        | 2.4        | 13.0       | 7.5        | 15.9        |
|                       | YEAR OF OCCURRENCE                          |          | 1994       | 1966       | 1968       | 1973       | 1989       | 1993       | 1994       | 2009       |            | 1993       | 1966       | 2004       | JAN 1994    |
|                       | MAXIMUM SNOW DEPTH (IN)                     | 59       | 19         | 11         | 11         | 2          | 0          | 0          | 0          | 0          | 0          | T          | 8          | 9          | 19          |
|                       | YEAR OF OCCURRENCE                          |          | 1978       | 1966       | 1968       | 1987       |            |            |            |            |            | 1989       | 1966       | 2004       | JAN 1978    |
|                       | NORMAL NO. DAYS WITH:                       |          |            |            |            |            |            |            |            |            |            |            |            |            |             |
| SNOWFALL >= 1.0       | 30  | 1.5      | 1.1        | 0.6        | 0.1        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.1        | 0.2        | 0.7        | 4.3        |             |

**PRECIPITATION (inches) 2010 LOUISVILLE (KSDF)**

| YEAR           | JAN  | FEB  | MAR   | APR  | MAY   | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|-------|------|-------|------|------|------|------|------|------|------|--------|
| 1981           | 0.45 | 3.23 | 1.54  | 4.44 | 4.63  | 3.23 | 3.98 | 3.21 | 3.22 | 1.60 | 2.40 | 2.02 | 33.95  |
| 1982           | 5.28 | 1.55 | 5.89  | 3.05 | 2.96  | 3.86 | 3.72 | 3.74 | 3.46 | 1.26 | 5.50 | 5.11 | 45.38  |
| 1983           | 1.63 | 1.52 | 2.16  | 7.10 | 10.58 | 4.42 | 0.99 | 2.39 | 1.13 | 6.47 | 5.03 | 3.96 | 47.38  |
| 1984           | 0.92 | 1.68 | 4.41  | 5.53 | 6.78  | 0.49 | 6.94 | 5.08 | 3.70 | 2.12 | 5.87 | 5.86 | 49.38  |
| 1985           | 2.20 | 2.08 | 4.43  | 1.69 | 3.93  | 4.37 | 3.45 | 4.49 | 1.48 | 4.24 | 4.43 | 0.96 | 37.75  |
| 1986           | 0.91 | 3.90 | 2.69  | 1.04 | 4.28  | 2.32 | 7.04 | 2.19 | 2.75 | 3.08 | 4.62 | 2.69 | 37.51  |
| 1987           | 0.81 | 4.42 | 3.05  | 2.35 | 1.61  | 3.58 | 5.31 | 2.66 | 1.15 | 0.39 | 2.62 | 4.70 | 32.65  |
| 1988           | 4.00 | 3.58 | 2.97  | 3.52 | 2.68  | 0.87 | 4.68 | 3.00 | 1.48 | 1.54 | 5.76 | 3.45 | 37.53  |
| 1989           | 3.68 | 9.02 | 5.50  | 4.93 | 4.39  | 5.26 | 6.90 | 2.20 | 2.42 | 2.65 | 2.57 | 1.45 | 50.97  |
| 1990           | 3.90 | 6.72 | 2.78  | 3.46 | 11.57 | 6.13 | 1.96 | 3.21 | 2.57 | 3.97 | 2.34 | 8.86 | 57.47  |
| 1991           | 3.29 | 3.72 | 4.79  | 2.61 | 4.02  | 1.23 | 2.99 | 3.35 | 2.74 | 2.31 | 1.87 | 5.23 | 38.15  |
| 1992           | 1.97 | 1.74 | 5.88  | 2.66 | 3.51  | 3.04 | 6.51 | 4.71 | 3.50 | 0.96 | 4.71 | 1.60 | 40.79  |
| 1993           | 3.50 | 4.20 | 5.20  | 3.57 | 2.80  | 4.05 | 4.58 | 5.74 | 3.90 | 4.03 | 3.26 | 2.56 | 47.39  |
| 1994           | 4.08 | 2.96 | 3.90  | 5.32 | 2.12  | 1.85 | 2.50 | 1.58 | 2.90 | 1.96 | 3.57 | 3.24 | 35.98  |
| 1995           | 3.20 | 2.00 | 2.17  | 2.64 | 9.48  | 2.84 | 3.39 | 4.07 | 0.01 | 5.42 | 2.39 | 3.28 | 40.89  |
| 1996           | 4.44 | 2.03 | 4.99  | 5.65 | 9.18  | 3.84 |      | 1.31 | 5.66 | 2.59 | 3.35 | 4.56 |        |
| 1997           | 3.35 | 3.39 | 12.58 | 2.01 | 6.01  | 8.11 | 1.74 | 3.70 | 1.28 | 1.41 | 3.63 | 2.50 | 49.71  |
| 1998           | 2.88 | 2.88 | 4.07  | 6.69 | 4.53  | 5.73 | 6.89 | 2.92 | 1.00 | 2.76 | 2.74 | 3.24 | 46.33  |
| 1999           | 7.23 | 2.20 | 3.47  | 3.04 | 3.12  | 6.36 | 0.34 | 0.97 | 1.74 | 2.46 | 1.61 | 4.81 | 37.35  |
| 2000           | 6.22 | 5.80 | 3.56  | 2.95 | 2.91  | 3.88 | 3.50 | 2.87 | 5.36 | 0.89 | 2.97 | 4.31 | 45.22  |
| 2001           | 1.46 | 3.42 | 2.27  | 1.04 | 5.19  | 2.61 | 4.47 | 3.42 | 4.08 | 6.39 | 5.16 | 4.48 | 43.99  |
| 2002           | 4.26 | 1.47 | 7.02  | 6.02 | 6.74  | 4.10 | 1.21 | 0.68 | 7.81 | 4.65 | 2.40 | 6.60 | 52.96  |
| 2003           | 1.13 | 4.12 | 2.04  | 5.99 | 6.42  | 3.22 | 3.44 | 6.72 | 6.44 | 1.90 | 4.51 | 3.13 | 49.06  |
| 2004           | 3.81 | 1.69 | 3.99  | 4.33 | 9.50  | 1.44 | 6.38 | 3.28 | 0.09 | 7.33 | 6.66 | 3.78 | 52.28  |
| 2005           | 5.07 | 2.35 | 3.85  | 3.56 | 4.67  | 2.46 | 3.02 | 7.17 | 1.32 | 0.82 | 3.53 | 2.04 | 39.86  |
| 2006           | 4.53 | 1.82 | 5.21  | 5.92 | 3.44  | 6.11 | 4.53 | 5.14 | 9.79 | 4.31 | 2.91 | 3.14 | 56.85  |
| 2007           | 3.63 | 2.90 | 2.99  | 4.55 | 2.37  | 1.58 | 4.13 | 1.61 | 1.95 | 8.86 | 2.44 | 7.52 | 44.53  |
| 2008           | 2.92 | 4.87 | 8.97  | 6.13 | 5.69  | 3.16 | 3.83 | 0.63 | 1.31 | 2.26 | 1.84 | 5.18 | 46.79  |
| 2009           | 3.63 | 2.20 | 1.36  | 4.43 | 4.59  | 9.22 | 6.02 | 5.88 | 5.70 | 7.00 | 1.05 | 2.85 | 53.93  |
| 2010           | 2.86 | 1.91 | 1.17  | 3.97 | 8.16  | 4.39 | 5.21 | 2.06 | 0.12 | 1.04 | 5.96 | 1.66 | 38.51  |
| POR=<br>63 YRS | 3.48 | 3.28 | 4.48  | 4.07 | 4.72  | 3.77 | 4.11 | 3.29 | 3.11 | 2.89 | 3.60 | 3.65 | 44.45  |

WBAN : 93821

**AVERAGE TEMPERATURE (°F) 2010 LOUISVILLE (KSDF)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1981           | 30.4 | 38.8 | 45.7 | 62.4 | 62.9 | 76.2 | 78.8 | 76.1 | 67.7 | 56.5 | 47.4 | 33.8 | 56.4   |
| 1982           | 28.6 | 34.9 | 47.1 | 51.3 | 70.3 | 69.3 | 78.0 | 73.5 | 66.8 | 59.0 | 48.7 | 44.9 | 56.0   |
| 1983           | 34.7 | 37.5 | 46.7 | 51.7 | 62.1 | 73.4 | 81.1 | 81.7 | 71.0 | 59.1 | 47.8 | 28.4 | 56.3   |
| 1984           | 28.9 | 41.5 | 40.4 | 55.0 | 62.6 | 77.7 | 75.5 | 76.0 | 67.2 | 63.9 | 44.0 | 45.9 | 56.6   |
| 1985           | 25.4 | 32.8 | 50.2 | 60.3 | 66.5 | 72.1 | 77.2 | 74.8 | 69.2 | 61.4 | 53.7 | 30.4 | 56.2   |
| 1986           | 34.5 | 39.9 | 48.3 | 58.5 | 67.0 | 75.7 | 80.3 | 74.3 | 73.1 | 59.5 | 45.9 | 36.7 | 57.8   |
| 1987           | 33.7 | 39.5 | 47.9 | 55.4 | 71.5 | 76.2 | 78.9 | 78.2 | 71.2 | 52.6 | 50.8 | 40.2 | 58.0   |
| 1988           | 31.0 | 34.7 | 46.1 | 57.0 | 67.1 | 75.6 | 80.3 | 80.0 | 70.1 | 52.3 | 47.8 | 38.0 | 56.7   |
| 1989           | 41.6 | 34.0 | 48.4 | 56.7 | 62.6 | 73.5 | 78.1 | 76.6 | 69.4 | 58.4 | 46.7 | 25.3 | 55.9   |
| 1990           | 43.1 | 44.3 | 51.2 | 55.5 | 64.2 | 75.1 | 78.5 | 77.5 | 71.8 | 58.7 | 52.0 | 40.8 | 59.4   |
| 1991           | 34.1 | 40.5 | 49.4 | 60.3 | 73.1 | 78.3 | 81.3 | 79.2 | 71.7 | 61.5 | 45.0 | 41.4 | 59.7   |
| 1992           | 37.1 | 43.7 | 47.9 | 58.2 | 63.9 | 72.1 | 78.5 | 73.2 | 69.1 | 58.1 | 47.9 | 38.6 | 57.4   |
| 1993           | 38.5 | 34.0 | 44.0 | 54.9 | 66.8 | 74.5 | 82.0 | 79.0 | 68.0 | 55.9 | 45.8 | 36.5 | 56.7   |
| 1994           | 26.8 | 38.0 | 45.4 | 59.9 | 63.0 | 77.5 | 79.0 | 76.1 | 68.7 | 59.4 | 52.2 | 42.4 | 57.4   |
| 1995           | 35.6 | 36.2 | 49.5 | 57.7 | 65.6 | 74.9 | 79.7 | 82.2 | 68.7 | 59.2 | 41.7 | 35.2 | 57.2   |
| 1996           | 32.4 | 37.7 | 41.0 | 53.6 | 68.5 | 74.6 |      |      |      | 58.9 | 41.8 | 40.9 |        |
| 1997           | 32.3 | 42.2 | 49.5 | 52.6 | 61.4 | 72.2 | 78.7 | 75.4 | 70.3 | 58.8 | 43.9 | 37.2 | 56.2   |
| 1998           | 42.4 | 43.6 | 48.1 | 56.2 | 70.3 | 75.0 | 78.3 | 78.8 | 76.2 | 62.6 | 51.3 | 42.0 | 60.4   |
| 1999           | 36.8 | 42.6 | 43.0 | 59.3 | 67.6 | 76.3 | 83.2 | 78.5 | 72.1 | 58.9 | 53.5 | 39.1 | 59.2   |
| 2000           | 34.4 | 45.1 | 51.4 | 55.8 | 69.2 | 75.0 | 76.8 | 77.1 | 68.0 | 61.4 | 44.6 | 26.2 | 57.1   |
| 2001           | 33.0 | 41.1 | 43.0 | 62.3 | 68.6 | 73.8 | 78.8 | 79.1 | 68.8 | 58.9 | 53.5 | 42.6 | 58.6   |
| 2002           | 40.8 | 40.6 | 46.1 | 60.6 | 64.7 | 77.9 | 81.4 | 80.9 | 75.2 | 58.3 | 45.3 | 38.2 | 59.2   |
| 2003           | 28.9 | 32.6 | 49.5 | 59.5 | 66.0 | 71.1 | 77.5 | 78.0 | 68.0 | 58.5 | 52.7 | 39.4 | 56.8   |
| 2004           | 33.1 | 38.7 | 51.3 | 59.1 | 71.7 | 76.1 | 77.6 | 74.3 | 71.9 | 61.4 | 51.5 | 36.6 | 58.6   |
| 2005           | 38.4 | 41.6 | 43.5 | 58.8 | 64.5 | 77.0 | 79.6 | 80.8 | 74.2 | 60.5 | 49.4 | 34.0 | 58.5   |
| 2006           | 44.2 | 37.9 | 47.0 | 61.5 | 65.0 | 73.7 | 79.3 | 79.3 | 66.6 | 55.7 | 49.1 | 43.1 | 58.5   |
| 2007           | 38.9 | 30.0 | 55.3 | 55.6 | 70.5 | 77.3 | 77.6 | 85.1 | 76.4 | 65.9 | 48.9 | 42.0 | 60.3   |
| 2008           | 34.7 | 37.7 | 46.5 | 57.9 | 64.8 | 78.6 | 79.8 | 78.8 | 73.9 | 59.7 | 45.5 | 37.5 | 58.0   |
| 2009           | 29.9 | 40.2 | 50.4 | 58.3 | 66.9 | 75.5 | 73.5 | 75.7 | 71.0 | 55.1 | 51.2 | 36.6 | 57.0   |
| 2010           | 30.1 | 30.9 | 49.0 | 62.7 | 70.5 | 81.1 | 82.9 | 82.8 | 75.1 | 63.1 | 49.9 | 30.8 | 59.1   |
| POR=<br>63 YRS | 33.6 | 37.2 | 46.2 | 57.1 | 66.1 | 74.5 | 78.3 | 77.1 | 70.1 | 58.4 | 47.0 | 37.3 | 56.9   |

**HEATING DEGREE DAYS (base 65°F) 2010 LOUISVILLE (KSDF)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-------|
| 1981-82 | 0   | 0   | 61  | 268 | 523 | 960  | 1124 | 837 | 549 | 408 | 13  | 3   | 4746  |
| 1982-83 | 0   | 1   | 56  | 246 | 495 | 624  | 933  | 763 | 571 | 399 | 121 | 5   | 4214  |
| 1983-84 | 0   | 0   | 54  | 196 | 509 | 1128 | 1115 | 673 | 757 | 315 | 141 | 0   | 4888  |
| 1984-85 | 0   | 0   | 73  | 84  | 623 | 584  | 1222 | 896 | 458 | 180 | 52  | 16  | 4188  |
| 1985-86 | 0   | 0   | 53  | 160 | 347 | 1067 | 941  | 696 | 516 | 224 | 69  | 0   | 4073  |
| 1986-87 | 0   | 12  | 5   | 210 | 570 | 869  | 962  | 706 | 526 | 294 | 21  | 0   | 4175  |
| 1987-88 | 0   | 0   | 9   | 377 | 423 | 762  | 1048 | 872 | 580 | 244 | 38  | 7   | 4360  |
| 1988-89 | 0   | 0   | 13  | 398 | 510 | 833  | 720  | 860 | 513 | 291 | 156 | 4   | 4298  |
| 1989-90 | 0   | 0   | 49  | 230 | 539 | 1222 | 672  | 574 | 445 | 320 | 82  | 13  | 4146  |
| 1990-91 | 0   | 0   | 34  | 229 | 387 | 745  | 949  | 677 | 482 | 167 | 27  | 0   | 3697  |
| 1991-92 | 0   | 0   | 52  | 168 | 590 | 725  | 855  | 610 | 523 | 244 | 124 | 8   | 3899  |
| 1992-93 | 0   | 0   | 40  | 219 | 505 | 813  | 819  | 859 | 644 | 299 | 44  | 18  | 4260  |
| 1993-94 | 0   | 0   | 48  | 289 | 572 | 875  | 1180 | 752 | 602 | 189 | 122 | 3   | 4632  |
| 1994-95 | 0   | 0   | 20  | 186 | 384 | 696  | 904  | 800 | 471 | 236 | 72  | 0   | 3769  |
| 1995-96 | 0   | 0   | 48  | 192 | 693 | 915  | 1002 | 782 | 738 | 353 | 66  | 2   | 4791  |
| 1996-97 |     |     |     | 202 | 689 | 741  | 1005 | 634 | 472 | 366 | 140 | 12  |       |
| 1997-98 | 0   | 0   | 9   | 263 | 621 | 854  | 696  | 594 | 561 | 261 | 27  | 15  | 3901  |
| 1998-99 | 0   | 0   | 0   | 119 | 405 | 711  | 866  | 620 | 676 | 183 | 16  | 0   | 3596  |
| 1999-00 | 0   | 0   | 20  | 197 | 346 | 796  | 942  | 575 | 416 | 270 | 26  | 2   | 3590  |
| 2000-01 | 0   | 0   | 60  | 174 | 608 | 1198 | 980  | 664 | 674 | 175 | 31  | 8   | 4572  |
| 2001-02 | 0   | 0   | 52  | 224 | 339 | 689  | 743  | 677 | 579 | 204 | 114 | 0   | 3621  |
| 2002-03 | 0   | 0   | 1   | 252 | 585 | 821  | 1114 | 898 | 474 | 205 | 48  | 14  | 4412  |
| 2003-04 | 0   | 0   | 37  | 214 | 380 | 788  | 982  | 758 | 435 | 209 | 40  | 0   | 3843  |
| 2004-05 | 0   | 1   | 8   | 128 | 402 | 873  | 820  | 648 | 656 | 207 | 95  | 0   | 3838  |
| 2005-06 | 0   | 0   | 9   | 206 | 469 | 954  | 638  | 756 | 548 | 152 | 98  | 0   | 3830  |
| 2006-07 | 0   | 0   | 44  | 311 | 471 | 670  | 805  | 971 | 346 | 329 | 27  | 0   | 3974  |
| 2007-08 | 0   | 0   | 3   | 114 | 480 | 712  | 935  | 787 | 569 | 237 | 65  | 0   | 3902  |
| 2008-09 | 0   | 0   | 0   | 212 | 578 | 849  | 1080 | 687 | 449 | 259 | 48  | 7   | 4169  |
| 2009-10 | 0   | 0   | 18  | 304 | 407 | 873  | 1075 | 949 | 489 | 131 | 39  | 0   | 4285  |
| 2010-   | 0   | 0   | 2   | 115 | 450 | 1053 |      |     |     |     |     |     |       |

WBAN : 93821

**COOLING DEGREE DAYS (base 65°F) 2010 LOUISVILLE (KSDF)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1981 | 0   | 0   | 5   | 68  | 63  | 343 | 435 | 348 | 150 | 10  | 0   | 0   | 1422  |
| 1982 | 0   | 0   | 1   | 2   | 183 | 139 | 408 | 274 | 118 | 68  | 13  | 8   | 1214  |
| 1983 | 0   | 0   | 7   | 8   | 39  | 264 | 504 | 524 | 240 | 19  | 0   | 0   | 1605  |
| 1984 | 0   | 0   | 0   | 20  | 69  | 386 | 333 | 349 | 145 | 56  | 0   | 1   | 1359  |
| 1985 | 0   | 2   | 8   | 48  | 106 | 233 | 387 | 311 | 185 | 55  | 14  | 0   | 1349  |
| 1986 | 0   | 0   | 5   | 37  | 138 | 330 | 481 | 306 | 255 | 46  | 0   | 0   | 1598  |
| 1987 | 0   | 0   | 0   | 14  | 232 | 342 | 439 | 416 | 203 | 1   | 4   | 0   | 1651  |
| 1988 | 0   | 0   | 4   | 10  | 111 | 333 | 481 | 472 | 173 | 10  | 0   | 0   | 1594  |
| 1989 | 0   | 0   | 6   | 48  | 88  | 264 | 412 | 364 | 188 | 30  | 0   | 0   | 1400  |
| 1990 | 0   | 0   | 22  | 44  | 65  | 323 | 427 | 392 | 244 | 42  | 7   | 0   | 1566  |
| 1991 | 0   | 0   | 8   | 31  | 286 | 406 | 514 | 445 | 262 | 68  | 0   | 0   | 2020  |
| 1992 | 0   | 0   | 2   | 48  | 100 | 229 | 424 | 262 | 169 | 14  | 0   | 0   | 1248  |
| 1993 | 0   | 0   | 0   | 4   | 106 | 310 | 534 | 442 | 146 | 12  | 3   | 0   | 1557  |
| 1994 | 0   | 0   | 0   | 42  | 63  | 384 | 443 | 349 | 138 | 21  | 4   | 0   | 1444  |
| 1995 | 0   | 0   | 0   | 29  | 100 | 304 | 466 | 544 | 165 | 21  | 0   | 0   | 1629  |
| 1996 | 0   | 0   | 0   | 18  | 183 | 298 |     |     |     | 19  | 0   | 0   |       |
| 1997 | 0   | 0   | 0   | 2   | 35  | 237 | 435 | 330 | 174 | 79  | 0   | 0   | 1292  |
| 1998 | 0   | 0   | 44  | 4   | 200 | 321 | 416 | 436 | 345 | 52  | 0   | 7   | 1825  |
| 1999 | 0   | 0   | 0   | 18  | 103 | 345 | 573 | 427 | 238 | 12  | 6   | 0   | 1722  |
| 2000 | 0   | 5   | 2   | 0   | 162 | 308 | 375 | 385 | 156 | 68  | 2   | 0   | 1463  |
| 2001 | 0   | 0   | 0   | 103 | 150 | 280 | 433 | 445 | 174 | 40  | 1   | 0   | 1626  |
| 2002 | 0   | 0   | 0   | 77  | 110 | 391 | 514 | 496 | 314 | 51  | 3   | 0   | 1956  |
| 2003 | 0   | 0   | 0   | 46  | 87  | 203 | 398 | 411 | 136 | 17  | 17  | 0   | 1315  |
| 2004 | 0   | 0   | 18  | 41  | 255 | 339 | 398 | 296 | 221 | 24  | 2   | 0   | 1594  |
| 2005 | 1   | 0   | 0   | 29  | 89  | 365 | 459 | 494 | 292 | 72  | 5   | 0   | 1806  |
| 2006 | 0   | 0   | 0   | 53  | 106 | 269 | 452 | 452 | 102 | 30  | 2   | 0   | 1466  |
| 2007 | 0   | 0   | 51  | 51  | 202 | 376 | 396 | 629 | 350 | 149 | 2   | 0   | 2206  |
| 2008 | 2   | 0   | 0   | 31  | 68  | 413 | 466 | 436 | 273 | 57  | 0   | 1   | 1747  |
| 2009 | 0   | 0   | 1   | 64  | 113 | 329 | 268 | 339 | 206 | 4   | 0   | 0   | 1324  |
| 2010 | 0   | 0   | 0   | 70  | 218 | 492 | 561 | 560 | 311 | 63  | 5   | 0   | 2280  |

## SNOWFALL (inches) 2010 LOUISVILLE (KSDF)

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 3.6  | 2.7  | 2.9  | 0.3  | 1.4 | 0.0 | 0.0 | 11.0  |
| 1982-83        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0  | 0.6  | 4.5  | 0.1  | T   | 0.0 | 0.0 | 5.2   |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6  | 3.1  | 8.8  | 1.0  | 0.0 | 0.0 | 0.0 | 13.5  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 4.8  | 7.4  | 6.7  | T    | T   | 0.0 | 0.0 | 18.9  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6  | 1.1  | 8.8  | 0.1  | 0.0 | 0.0 | 0.0 | 11.6  |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 2.2  | 6.7  | 9.3  | T   | 0.0 | 0.0 | 18.2  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 3.0  | 5.0  | 0.5  | 0.0 | 0.0 | 0.0 | 8.5   |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.3  | T    | 0.6  | T    | 0.0 | T   | 0.0 | 0.9   |
| 1989-90        | 0.0 | 0.0 | 0.0 | 1.4 | T   | 6.5  | 1.9  | 0.8  | 4.1  | T   | 0.0 | 0.0 | 14.7  |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1  | 0.3  | 1.5  | 0.2  | 0.0 | 0.0 | 0.0 | 6.1   |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.1  | 0.9  | 0.1  | 0.9  | 0.7 | 0.0 | 0.0 | 3.2   |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.0  | T    | 15.9 | 1.1  | T   | 0.0 | T   | 18.9  |
| 1993-94        | 0.0 | 0.0 | 0.0 | 2.4 | T   | 3.6  | 17.7 | 1.5  | 4.7  | T   | 0.0 | 0.0 | 29.9  |
| 1994-95        | T   | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.1  | 2.8  | 1.1  | 0.0 | 0.0 | 0.0 | 4.0   |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.1  | 13.8 | 1.3  | 8.0  | T   |     |     |       |
| 1996-97        |     |     |     | 0.0 | T   | 0.4  | 3.0  | 1.9  | T    | T   | 0.0 | 0.0 |       |
| 1997-98        | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.9  | T    | 19.3 | 1.2  | T   | T   | 0.0 | 22.8  |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8  | 5.5  | 3.7  | 1.3  | 0.0 | 0.0 | T   | 13.3  |
| 1999-00        | 0.0 | T   | 0.0 | 0.0 | 0.0 | 4.9  | 6.7  | 0.1  | 0.3  | T   | 0.0 | 0.0 | 12.0  |
| 2000-01        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 9.7  | 4.8  | 0.3  | T    | T   | 0.0 | 0.0 | 14.8  |
| 2001-02        | 0.0 | 0.0 | 0.0 | T   | 0.0 | 0.6  | 8.1  | 0.6  | 0.4  | T   | 0.0 | 0.0 | 9.7   |
| 2002-03        | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 6.1  | 3.5  | 6.3  | T    | T   | 0.0 | 0.0 | 16.3  |
| 2003-04        | 0.0 | T   | 0.0 | 0.0 | T   | 3.6  | 3.6  | T    | T    | T   | T   | 0.0 | 7.2   |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 1.7  | 0.4  | 2.0  | T   | 0.0 | 0.0 | 14.1  |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.8  | 1.7  | 3.1  | T    | T   | 0.0 | 0.0 | 5.6   |
| 2006-07        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.2  | 0.1  | 3.1  | T    | T   | 0.0 | 0.0 | 3.4   |
| 2007-08        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.4  | 2.1  | 5.8  | 10.6 | 0.0 | 0.0 | 0.0 | 19.9  |
| 2008-09        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.3  | 9.5  | 1.3  | T    | T   | 0.0 | 0.0 | 12.1  |
| 2009-10        | 0.0 | T   | 0.0 | 0.0 | 0.0 | 0.3  | 7.1  | 13.9 | T    | 0.0 | 0.0 | 0.0 | 21.3  |
| 2010-          | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 6.2  |      |      |      |     |     |     |       |
| POR=<br>62 YRS | T   | T   | 0.0 | 0.1 | 0.8 | 2.4  | 5.1  | 4.3  | 2.8  | 0.1 | T   | T   | 15.6  |

WBAN : 93821

### REFERENCE NOTES :

|  |  |
|--|--|
| <p>PAGE 1:<br/>THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.<br/>THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</p> | <p>GENERAL CONTINUED:<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.<br/>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.<br/>STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a><br/>SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b><br/>The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
|--|--|

# 2010 LOUISVILLE KENTUCKY (KSDF)

Louisville is located on the south bank of the Ohio River, 604 miles below Pittsburgh, Pennsylvania, and 377 miles above the mouth of the river at Cairo, Illinois. The city is divided by Beargrass Creek and its south fork into two portions with entirely different types of topography. The eastern portion is rolling, containing several creeks, and consists of plateaus and rolling hillsides. The highest elevation in this area is 565 feet. The western portion is mostly flat with an average elevation about 100 feet lower than the eastern area. Much of the western section lies in the flood plain of the Ohio River. Nearly all of the industries in the city are located in the western portion, while the eastern portion is almost entirely residential. A range of low hills about five miles northwest of Louisville, on the Indiana side of the Ohio River, present a partial barrier to arctic blasts in the winter months. During colder months, snow is frequently observed on the summits of these hills when there is no snow in the city of Louisville or in riverside communities on the Indiana side of the Ohio River.

The climate of Louisville, while continental in type, is of a variable nature because of its position with respect to the paths of high and low pressure systems and the occasional influx of warm moist air from the Gulf of Mexico. In winter and summer there are occasional cold and hot spells of short duration. As a whole, winters are moderately cold and summers are quite warm. Temperatures of 100 degrees or more in summer and zero degrees or less in winter are rare.

Thunderstorms with high rainfall intensities are common during the spring and summer months. The precipitation in Louisville is nonseasonal and varies from year to year. The fall months are usually the driest. Generally, March has the most rainfall and October the least. Snowfall usually occurs from November through March. As with rainfall, amounts vary from year to year and month to month. Some snow has also been recorded in the months of October and April. Mean total amounts for the months of January, February, and March are about the same with January showing a slight edge in total amount. Relative humidity remains rather high throughout the summer months. Cloud cover is about equally distributed throughout the year with the winter months showing somewhat of an increase in amount. The percentage of possible sunshine at Louisville varies from month to month with the greatest amount during the summer months as a result of the decreasing sky cover during that season. Heavy fog is unusual and there is only an average of 10 days during the year with heavy fog and these occur generally in the months of September through March.

The average date for the last occurrence in the spring of temperatures as low as 32 degrees is mid-April, and the first occurrence in the fall is generally in late October.

The prevailing direction of the wind has a southerly component and the velocity averages under 10 mph. The strongest winds are usually associated with thunderstorms.

**Non-Subscription Request:**

NCDC Customer Services;

Phone: 828-271-4800

Fax: 828-271-4876

Email: [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300

CHANGE SERVICE REQUESTED

FIRST CLASS  
POSTAGE & FEES PAID  
United States Department of Commerce  
NOAA Permit No. G - 19

INQUIRES/COMMENTS CALL: Toll Free (866) 742-3322

Visit our Web Site for other weather data: [www.ncdc.noa.gov](http://www.ncdc.noa.gov)

**For Hard Copy Subscription:**

Price and ordering information: NCDC Subscribing Service Center, 310 State Route 956, Building 300, Rocket Center, WV 26726.