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OFFICE OF
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AND STANDARDS

MEMORANDUM

SUBJECT: Analysis of Recent U.S. Ozone Air Quality Data to Support the O_3 NAAQS Review and Quadratic Rollback Simulations to Support the First Draft of the Risk and Exposure Assessment

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Ambient air quality information is an important element of the O_3 NAAQS Health and Welfare Risk and Exposure Assessments (REAs; U.S. EPA, 2012a, b), as well as the Policy Assessment (PA; U.S. EPA, 2012c). This memorandum provides information about the ambient O_3 monitoring data, modeling data, and spatial fusion technique analyzed in both REAs, as well as information on the ambient O_3 concentrations in locations and time periods of the health studies discussed in the PA.

In addition, this memorandum also provides information on the "quadratic rollback" method, which uses a quadratic equation to reduce high concentrations at a greater rate than low concentrations in simulations of just meeting the current O_3 standard. In this review, quadratic rollback was used to simulate reductions in O_3 concentrations in areas that did not meet the current O_3 standard of 0.075 ppm (75 ppb). This memorandum discusses the application of the quadratic rollback to simulate just meeting the current standard in 12 case study areas for the Health REA (U.S. EPA, 2012a) and in the national-scale analysis for the Welfare REA (U.S. EPA, 2012b). An evaluation of the rollback approach is also discussed for the urban case study analysis, as well as the national-scale application.

Attachment:
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1 AIR QUALITY INFORMATION

1.1 INTRODUCTION

Ambient air quality information is an important element of the O_3 NAAQS Risk and Exposure Assessment (REA; U.S. EPA, 2012a, b), as well as the Policy Assessment (PA; U.S. EPA, 2012c). This chapter gives information about the ambient monitoring data, modeling data, and spatial fusion technique analyzed in the REA (section 1.2), as well as information on the ambient O_3 concentrations in locations and time periods of the health studies discussed in the PA (section 1.3).

1.2 AIR QUALITY DATA

This Health REA (U.S. EPA, 2012a) and Welfare REA (U.S. EPA, 2012b) utilized ambient monitoring data, as well as spatially fused ambient air quality measurement and modeling data. This section discusses the ambient monitoring data (section 1.2.1), the air quality models (section 1.2.2), and the spatial fusion technique (section 1.2.3).

1.2.1 Air Quality Monitoring Data

EPA's Air Quality System (AQS) database is a state-of-the-art repository for many types of air quality and related monitoring data. AQS contains monitoring data for the six criteria pollutants dating back to the 1970's, as well as more recent additions such as air toxics, meteorology, and quality assurance data. At present, AQS receives O_3 monitoring data collected hourly from over 1,300 monitors, and quality assured by one of over 100 state, local, or tribal air quality monitoring agencies.

The air quality monitoring data used to inform the 1st draft O_3 NAAQS REA (U.S. EPA, 2012a,b) were hourly O_3 concentrations collected between 1/1/2006 and 12/31/2010 from all US monitors meeting EPA's siting, method, and quality assurance criteria in 40 CFR Part 58. These data were extracted from AQS on June 27, 2011. Regionally concurred exceptional event data (i.e. data certified by the monitoring agency to have been affected by natural phenomena such as wildfires or stratospheric intrusions, and concurred upon by the EPA regional office) were not included in the assessments. However, concurred exceptional events were rare, accounting for less than 0.01% of the total observations. All concurred exceptional events in 2006-2010 were related to wildfires in California in 2008.

The "design value" metric used to compare O_3 monitoring data to the current NAAQS is the 3-year average of the 4th highest daily maximum 8-hour O_3 concentration. The current NAAQS are met at an O_3 monitoring site if its design value is less than or equal to 0.075 ppm (75 ppb). The O_3 monitoring data were checked for data completeness within each period, and

all monitors lacking sufficient data to calculate a valid 3-year design value were excluded (see 40 CFR Part 50, Appendix P).

Finally, gaps of 1 or 2 hours in the hourly concentration data were replaced by interpolating between the last data point before the gap and the first data point after the gap. These short gaps tend to occur at regular intervals in the monitoring data due to a requirement for monitoring agencies to turn off their monitors for brief periods in order to perform quality control checks. Generally, quality control checks are performed during nighttime hours (between 12:00 AM and 6:00 AM) when O_3 concentrations tend to be lowest. Missing intervals of 3 hours or more were infrequent and were not replaced, except as described in Chapter 5 of the Health REA (EPA, 2012a) for the exposure assessment.

1.2.2 Air Quality Modeling Data

Air quality models are attractive tools for use in national-scale health and welfare assessments because they have the ability to provide more complete spatial coverage of air quality concentrations than monitoring data alone, particular where ambient monitoring data is sparse or not available. The Community Multiscale Air Quality (CMAQ) model was run for the year of 2007 and used in conjunction with ambient monitoring data from 2006-2008 to create "fused" spatial surfaces for several O_3 metrics. This section gives a summary of the air quality modeling platform and information on the 2007 CMAQ model simulation. More details on the CMAQ run can also be found in Hall et al. (2012).

A modeling platform is a structured system of connected modeling-related tools and data that provide a consistent and transparent basis for assessing the air quality response to changes in emissions and/or meteorology. A platform typically consists of a specific air quality model, emissions estimates, a set of meteorological inputs, and estimates of "boundary conditions" representing pollutant transport from source areas outside the region modeled. The CMAQ model is a non-proprietary computer model that brings together key physical and chemical functions associated with the dispersion and transformations of air pollution at various scales (Byun et al, 2006). It was designed to approach air quality as a whole by including state-of-the-science capabilities for modeling multiple air quality issues, including tropospheric O_3, fine particles, toxics, acid deposition, and visibility degradation. The CMAQ model version 4.7 was most recently peer-reviewed in February of 2009. This analysis employed a version of CMAQ based on the latest publicly released version of CMAQ (i.e., version 4.7.1) at the time of the 2007 air quality modeling. CMAQ version 4.7.1 reflects updates to version 4.7 to improve the underlying science which include aqueous chemistry mass conservation improvements and improved vertical convective mixing (Hall et al., 2012).

Figure 1-1. Map of the CMAQ modeling domain. The blue box denotes the 12 km national modeling domain.

The 2007 CMAQ modeling analyses were performed for a domain covering the continental United States, as shown in Figure 1-1. This single domain covers the entire continental U.S. (CONUS) and large portions of Canada and Mexico using 12 km by 12 km horizontal grid spacing. The model was run with 24 vertical layers and extends vertically from the surface to 50 millibars (approximately 19 km) using a sigma-pressure coordinate system.

The 2007 CMAQ simulation utilizes emission estimates from various sources, including the U.S. EPA Office of Air Quality Planning and Standards' 2005 emission inventories, observed emission from major utility stacks, 2007 onroad mobile emissions, and model estimates of natural emissions from biogenic and agricultural sources, which are described in detail in U.S. EPA, 2012. CMAQ also relies on meteorological predictions that include assimilation of meteorological observations as constraints. The 2007 CMAQ simulation used the gridded meteorological data derived from version 3.1 of the Weather Research and Forecasting Model (WRF), Advanced Research WRF core. The lateral boundary and initial species concentrations

were provided by the GEOS-CHEM model, version 8-02-03. More details on the WRF and GEOS-CHEM data used in the 2007 CMAQ simulation can be found in Hall et al. (2012).

A detailed model performance evaluation for O_3 was conducted using observed/predicted pairs of daily/monthly/seasonal/annual concentrations. Overall, the fractional bias, fractional error, normalized mean bias, and normalized mean error statistics were within the range or close to that found in other recent applications, and determined to be sufficient to provide a scientifically credible approach for this assessment. More details on the results can be found at Hall et al. (2012).

1.2.3 National-scale "Spatial Fusion" Analyses

In contrast to the urban study areas analysis, the national-scale analyses employ a data fusion approach that takes advantage of the accuracy of monitor observations and the comprehensive spatial information of the CMAQ modeling system to create a national-scale "fused" spatial surface of seasonal average O_3. For the national-scale risk assessment (U.S. EPA, 2012a, Chapter 8), "fused" spatial surfaces were created for three O_3 metrics: (1) the May-September mean of the 8-hr daily maximum (consistent with the metric used by Bell et al., 2004); (2) the June-August mean of the 8-hr daily mean from 10am to 6pm (consistent with the metric used by Zanobetti and Schwartz, 2008); and (3) the W126 for the three-year period of 2006-2008 and for each individual year: 2006, 2007 and 2008.

The spatial surfaces are created by fusing 2006-2008 measured O_3 concentrations with the 12 km 2007 CMAQ model simulation, using the EPA's Model Attainment Test Software (MATS; Abt Associates, 2010a), which employs the enhanced Voronoi Neighbor Averaging (eVNA) technique (Timin et al., 2010, Abt Associates, 2010a). The CMAQ domain consists of 459 X 299 grid cells, each 12 km x 12 km in size. The first step in the VNA fusion technique sets the grid cell centroid equal to the CMAQ grid cell concentrations, identifies the set of monitors that are nearest to that grid cell centroid, and then takes the inverse distance squared or the inverse distance weighted average of the monitor concentrations. The "fused" spatial fields are then calculated by adjusting the interpolated ambient data (in each grid cell) up or down by a multiplicative factor calculated as the ratio of the modeled concentration at the grid cell divided by the modeled concentration at the nearest neighbor monitor locations (weighted by distance). The equation below shows the calculation of the fused concentrations.

$$Species_E = \sum_{i=1}^{N} Weight_i * Monitor_i * \frac{Model_E}{Monitor_i}$$

The concentration of $Species_E$ (which, for our application, stands for the mean of the 8-hr daily maximum O_3, 8-hr daily mean O_3, and W126 concentrations) is calculated as the sum of the weighted concentrations at each neighbor monitor. In this way, the modeled concentrations are not used in an absolute sense, but are used relative to the ambient monitored concentrations to estimate the changes in air quality concentrations between the modeled grid cells (i.e. air quality concentration gradients) with ambient monitoring data. For the 8-hr daily maximum and 8-hr daily mean O_3 metric, we used the inverse distance weight. Because of the steeper changes in W126 concentrations that can be observed near a monitor, we used the inverse distance squared weight in the eVNA approach for the W126 metric.

Figures 1-2 to 1-10 show the fused spatial surfaces of the mean of the 8-hr daily maximum O_3 concentrations, the mean of the 8-hr daily mean O_3 concentrations, and the W126 concentrations based on: only ambient measurement data from 2006-2008, created using the first step (as described above) in the eVNA process; CMAQ modeled concentrations; and "fused" spatial surfaces created with eVNA. Figures 1-2 to 1-4 show the mean of the 8-hr daily maximum O_3, Figures 1-5 to 1-7 show the mean of the 8-hr daily mean O_3 concentrations, and Figures 1-8 to 1-10 show the W126 concentrations. This set of figures demonstrates how the eVNA technique merges together the information provided by the CMAQ model and the ambient O_3 measurements to provide more comprehensive spatial information, particularly where ambient monitoring data is spare or not available (e.g. Western U.S.). More information on how these data are applied in the REA can be found in U.S. EPA (2012a, b).

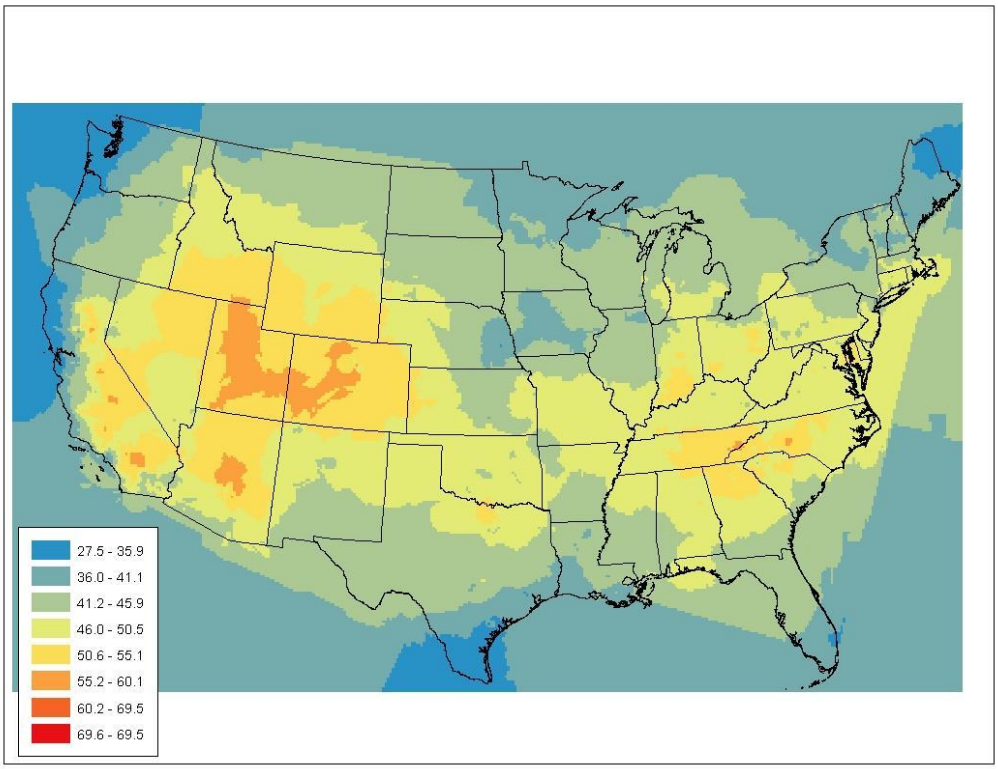

Figure 1-2. Spatial surface of the mean of the 8-hr daily maximum O_3 concentrations based on ambient measurements from 2006-2008, created using the first step (as described in section 1.2.3) in the eVNA process.

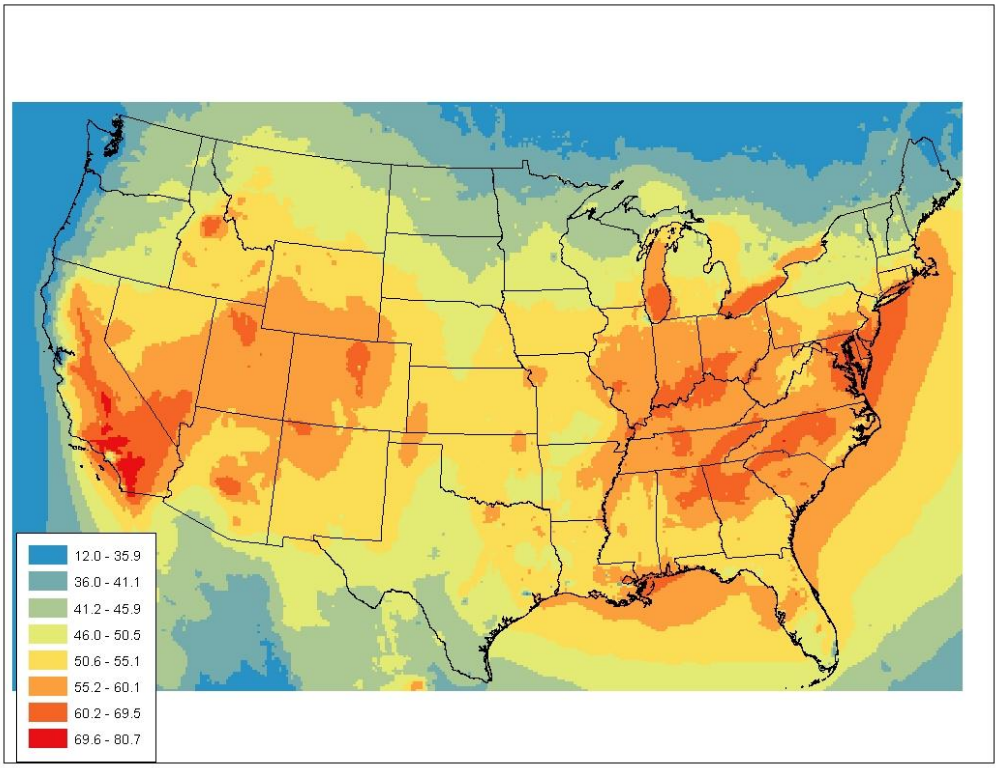

Figure 1-3. Mean 2007 8-hr daily maximum O_3 concentrations from the 2007 CMAQ model simulation.

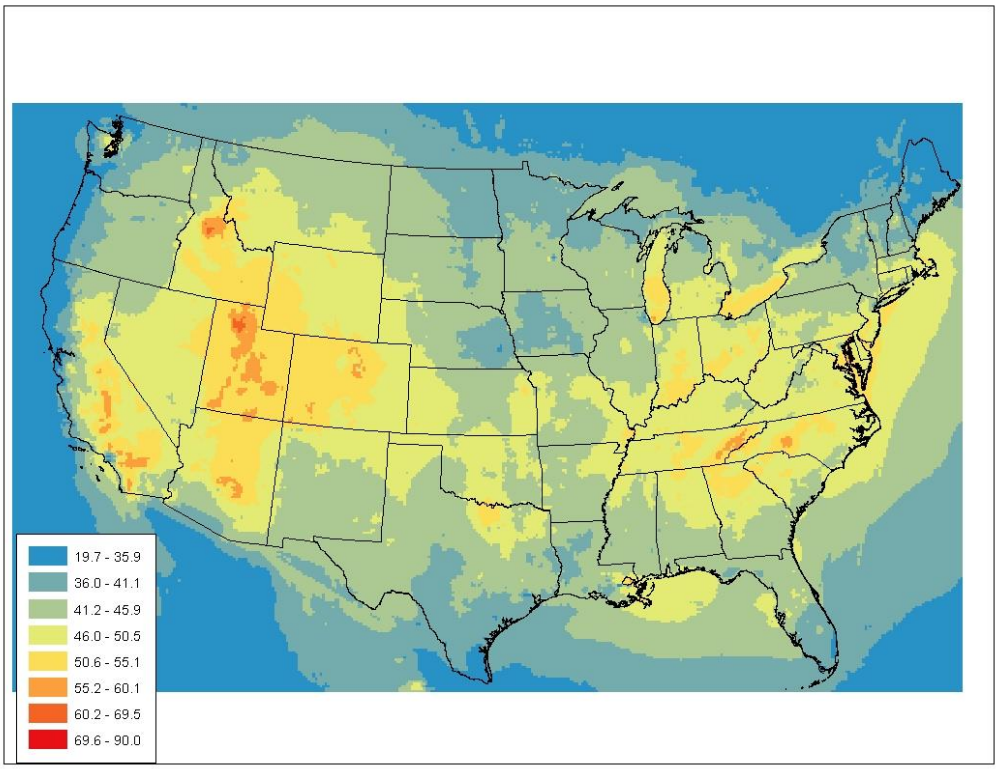

Figure 1-4. Spatial surface of the mean of the 8-hr daily maximum O_3 concentrations based on ambient measurements from 2006-2008 and the 2007 CMAQ model simulation, created using the eVNA spatial fusion technique.

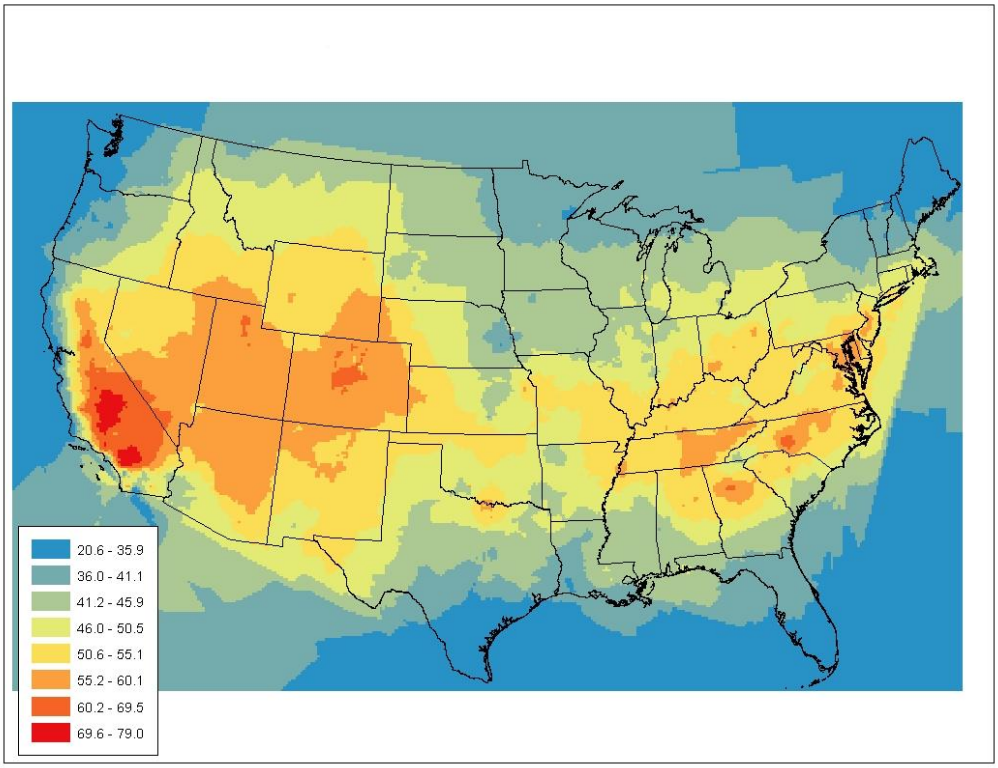

Figure 1-5. Spatial surface of the mean of the 8-hr daily mean O_3 concentrations based on ambient measurements from 2006-2008, created using the first step (as described in section 1.2.3) in the eVNA process.

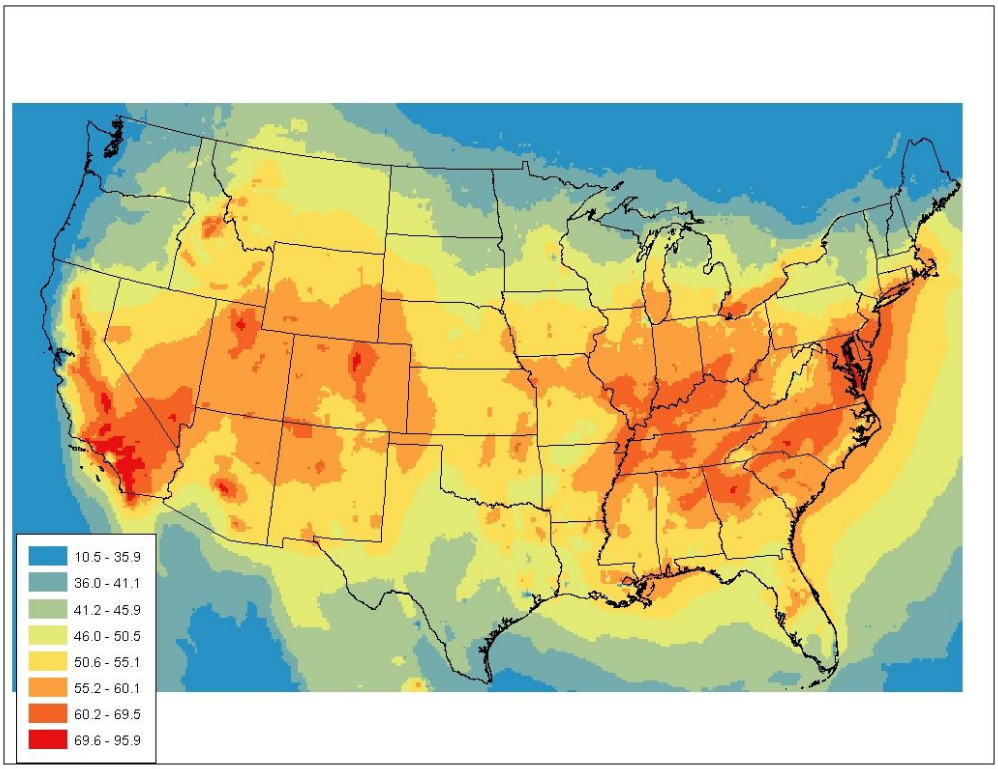

Figure 1-6. Mean 2007 8-hr daily mean O_3 concentrations from the 2007 CMAQ model simulation.

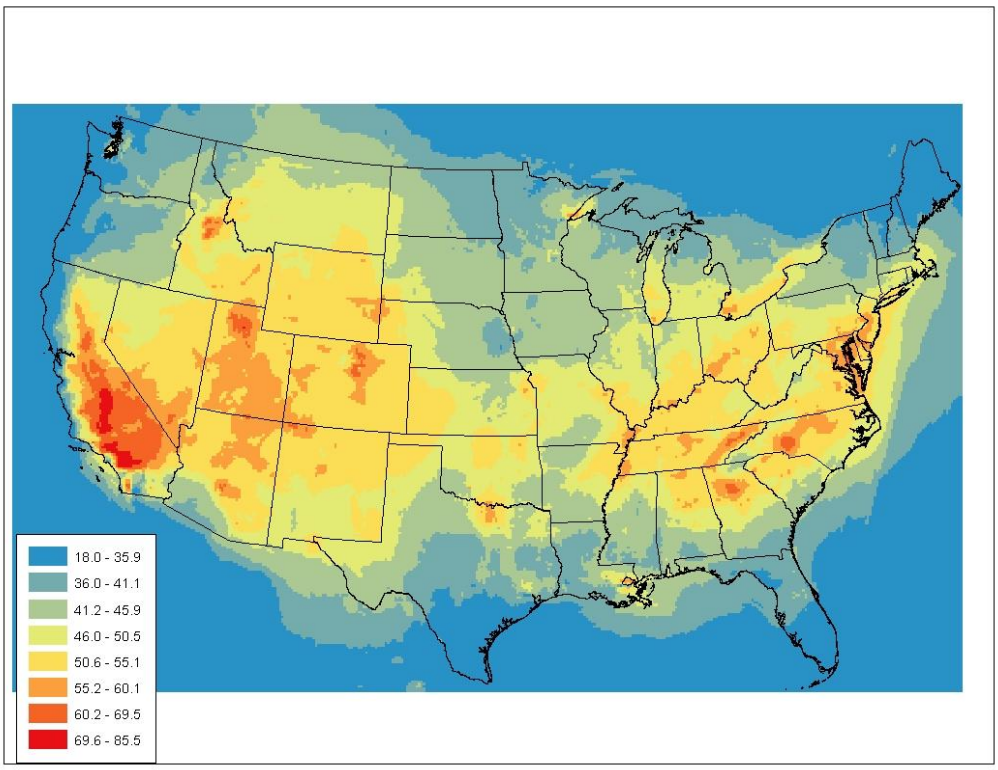

Figure 1-7. Spatial surface of the mean of the 8-hr daily mean O_3 concentrations based on ambient measurements from 2006-2008 and the 2007 CMAQ model simulation, created using the eVNA spatial fusion technique.

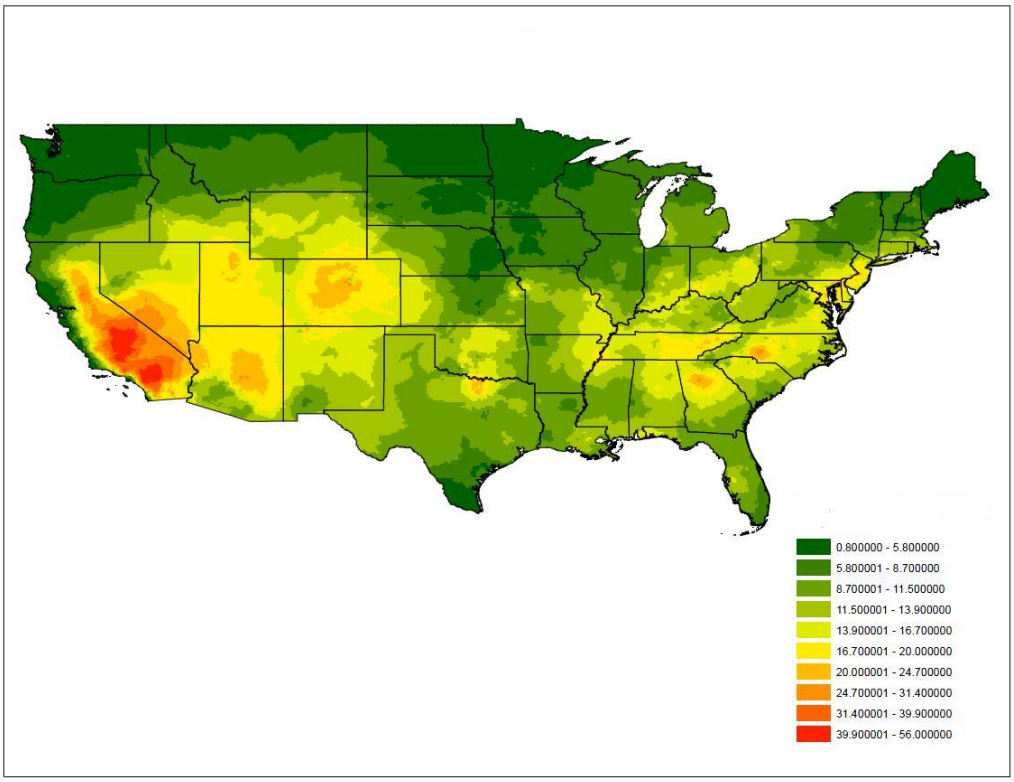

Figure 1-8. Spatial surface of the W126 concentrations based on ambient measurements from 2006-2008, created using the first step (as described in section 1.2.3) in the eVNA process.

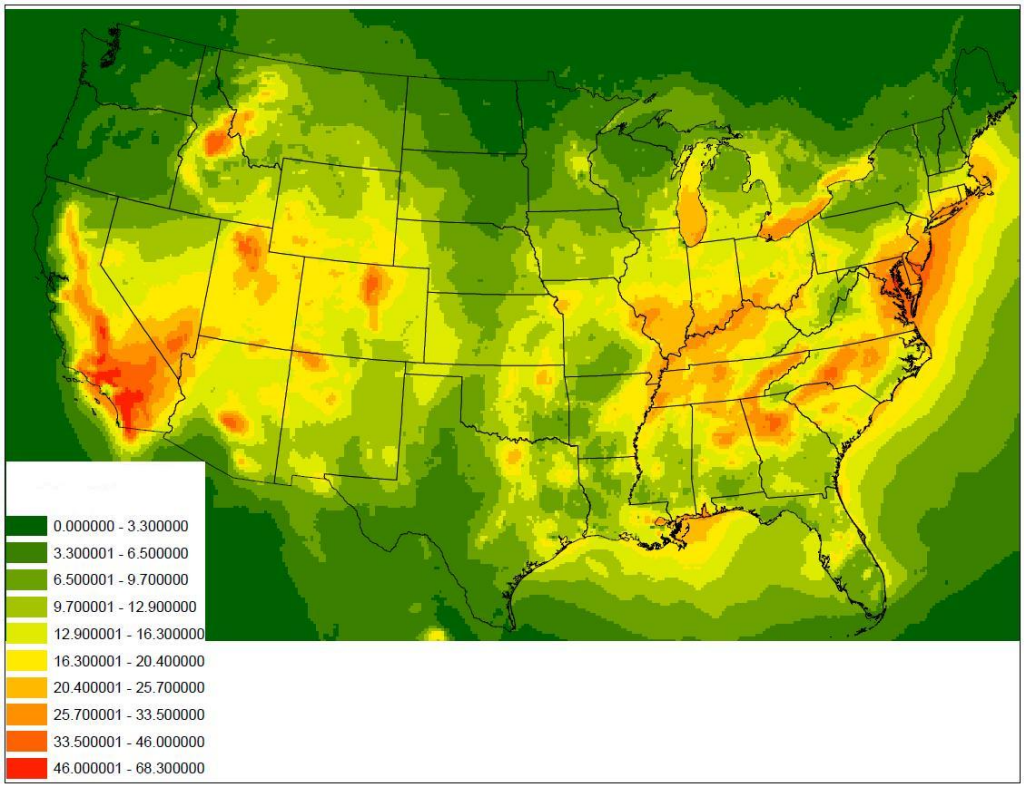

Figure 1-9. 2007 W126 concentrations from the 2007 CMAQ model simulation.

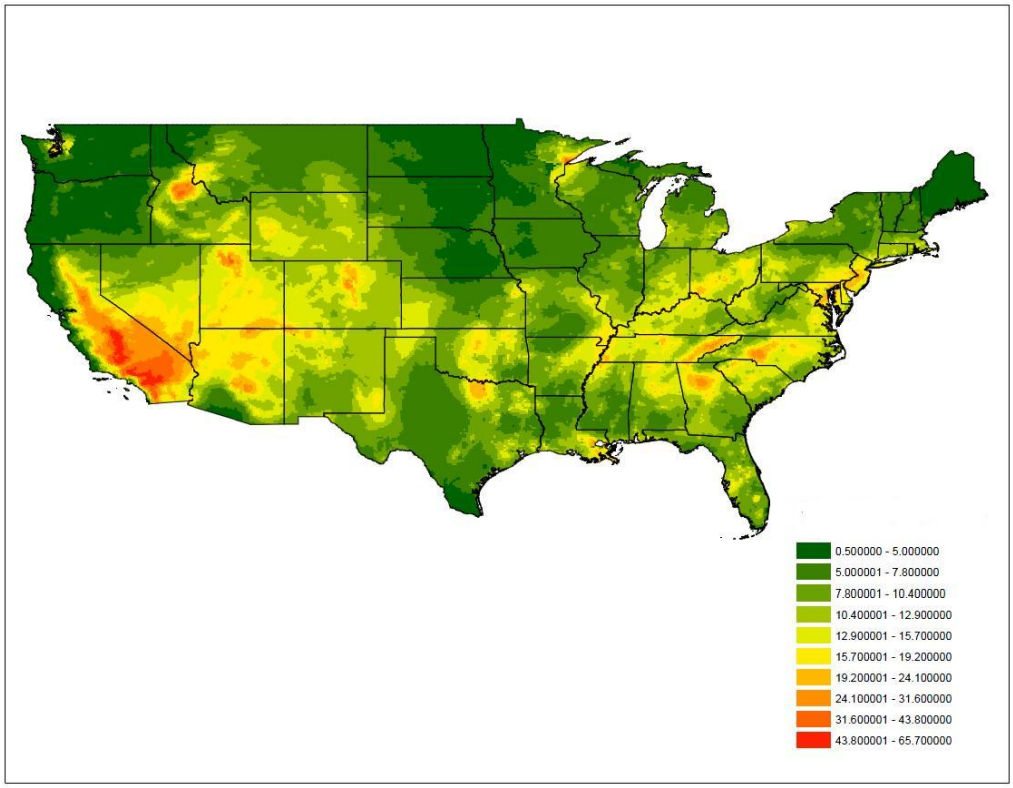

Figure 1-10. Spatial surface of W126 concentrations based on ambient measurements from 2006-2008 and the 2007 CMAQ model simulation, created using the eVNA spatial fusion technique.

1.3 AMBIENT O_3 CONCENTRATIONS IN LOCATIONS OF HEALTH STUDIES

Annual 4th highest daily maximum O_3 concentrations for all U.S. monitors operating during the 1975 – 2010 period were retrieved from EPA's AQS database on April 19, 2012. These data were used to calculate O_3 design values for the 2008 8-hour O_3 NAAQS of 0.075 parts per million (ppm) according to 40 CFR part 50, Appendix P. Design values were calculated for each O_3 monitor and each 3-year period between 1975-1977 and 2008-2010 whenever sufficient data were available.

1.3.1 Ozone design values in study locations

Ozone monitors were matched to 200 health study locations on a case-by-case basis, using the following guidelines:

1) Areas defined by a Metropolitan Statistical Area (MSA) were matched with O_3 monitors by incorporating all of the monitors located in within the MSA boundaries.

2) Areas not represented by a MSA were matched to monitors by incorporating all of the monitors in the county central to location of the health study area.

3) In some cases, judgment calls were made. For example, the Los Angeles, CA study area was matched to the Los Angeles-Long Beach-Santa Ana, CA MSA defined by Los Angeles County, CA and Orange County, CA, while the Long Beach, CA study area was matched to Los Angeles County, CA and the Santa Ana, CA study area was matched to Orange County, CA.

In some cases, two or more study areas were matched to the same county or MSA. In other cases, a study area was matched to a MSA and another study area was matched to a county within the same MSA. For each 3-year period, the area design value was determined by the monitor reporting the highest design value in the county or MSA. This has two implications for the design values:

1) Design values are sensitive to changes in the monitoring network. The addition or discontinuation of O_3 monitors in an area may cause sharp increases or decreases in the design value trend.

2) Only valid design values are reported. According to 40 CFR Part 50, Appendix P, design values greater than the level of the NAAQS (0.075 ppm) are always valid, while design values less than or equal to 0.075 ppm must have 75% annual data completeness in order to be valid. This may cause anomalies in the design value trend. For example, a monitor may report a valid design value based on as few as 12 days of data, or a monitor with less than 75% annual data completeness may have valid design values in some 3-year periods and invalid design values in others.

We have identified design values for the U.S. O_3 epidemiologic studies identified in Tables 4-1 to 4-3 of the first draft Policy Assessment (US EPA, 2012c). For each study, design values were identified for the cities evaluated and for the years over which the study was conducted. These design values are reported in ppm in tables A-1 to A-22 in Appendix A to this memo.

1.3.2 Relationship between average 24-hour and highest 8-hour O_3 concentrations for cities analyzed by Bell et al. (2006)

Bell et al. (2006) reported associations between mortality and 24-hour average O_3 concentrations (i.e., averaged across monitors in cities with multiple monitors) in a multi-city study of 98 U.S. cities. Positive associations persisted in a series of analyses that restricted O_3 concentrations to those below various cut points (cut points ranged from 5 to 60 ppb in 5 ppb increments). To facilitate consideration of these cut point analyses in the first draft Policy Assessment, we have evaluated the relationship between 24-hour average O_3 concentrations,

averaged across monitors in cities with multiple monitors, and 8-hour daily maximum concentrations from the monitors recording the highest such concentrations.

Daily 24-hour average and 8-hour maximum O_3 concentrations for monitors in the 98 study areas defined in Bell et al. (2006) during the 1987-2010 period were retrieved from AQS on July 2, 2012. The MSA boundaries were used to determine which monitors were associated with each area[1]. Nine of the areas which shared a MSA with another area were combined, for a total of 89 areas used in the analysis.

Within each area, the 24-hour average O_3 concentrations were averaged spatially across monitors within each of the study areas on each day where monitoring data were collected. These values were paired with the highest daily maximum 8-hour concentration observed in the area on each day. From these data, the highest observed 8-hour daily maximum value and the number of days with a daily maximum 8-hour concentration greater than 75 parts per billion (ppb) were recorded for each year in 1987-2010.

Next, all days where the 24-hour average concentration for the study area (i.e., averaged across monitors in cities with multiple monitors) was greater than 60 parts per billion were removed from the dataset, and the highest observed 8-hour daily maximum value and the number of days with a daily maximum 8-hour concentration greater than 75 ppb were recorded based on the reduced dataset. This process was repeated by further removing days with area wide 24-hour average concentrations greater than 55 ppb, 50 ppb, etc. down to 5 ppb and re-calculating the same statistics after each removal. Results are shown in Appendix B to this memo.

1.3.3 Relationship between average and highest 8-hour daily maximum O_3 concentrations for New York City, as analyzed by Silverman and Ito (2010)

Daily maximum 8-hour O_3 concentrations for 13 monitors in the New York City area during April-August of 1999-2006 were retrieved from AQS on July 2, 2012. The 13 monitors were the same ones used in Silverman and Ito (2010). These concentrations were spatially averaged across monitors for each day during this period. Figure 1-11 shows a scatterplot of the spatially averaged 8-hour daily maximum values plotted against the highest 8-hour value on each day. The percentiles of the average and maximum distributions are presented in Table 1-2.

Next, the range of observed average daily maximum 8-hour concentrations was broken into 5 ppb increments. The number of days where the average daily maximum 8-hour concentration fell within the increment, the number of days where one or more 8-hour

[1] The MSA was used as a surrogate for the study area boundaries. We recognize that this does not exactly match the study area definitions used by Bell et al. (2006). Further refinement of this approach may be explored in the 2nd draft Policy Assessment.

concentrations were greater than 75 ppb, and the highest observed concentration for days falling within the increment were recorded for each 5 ppb increment. These numbers are summarized in Table 1-3.

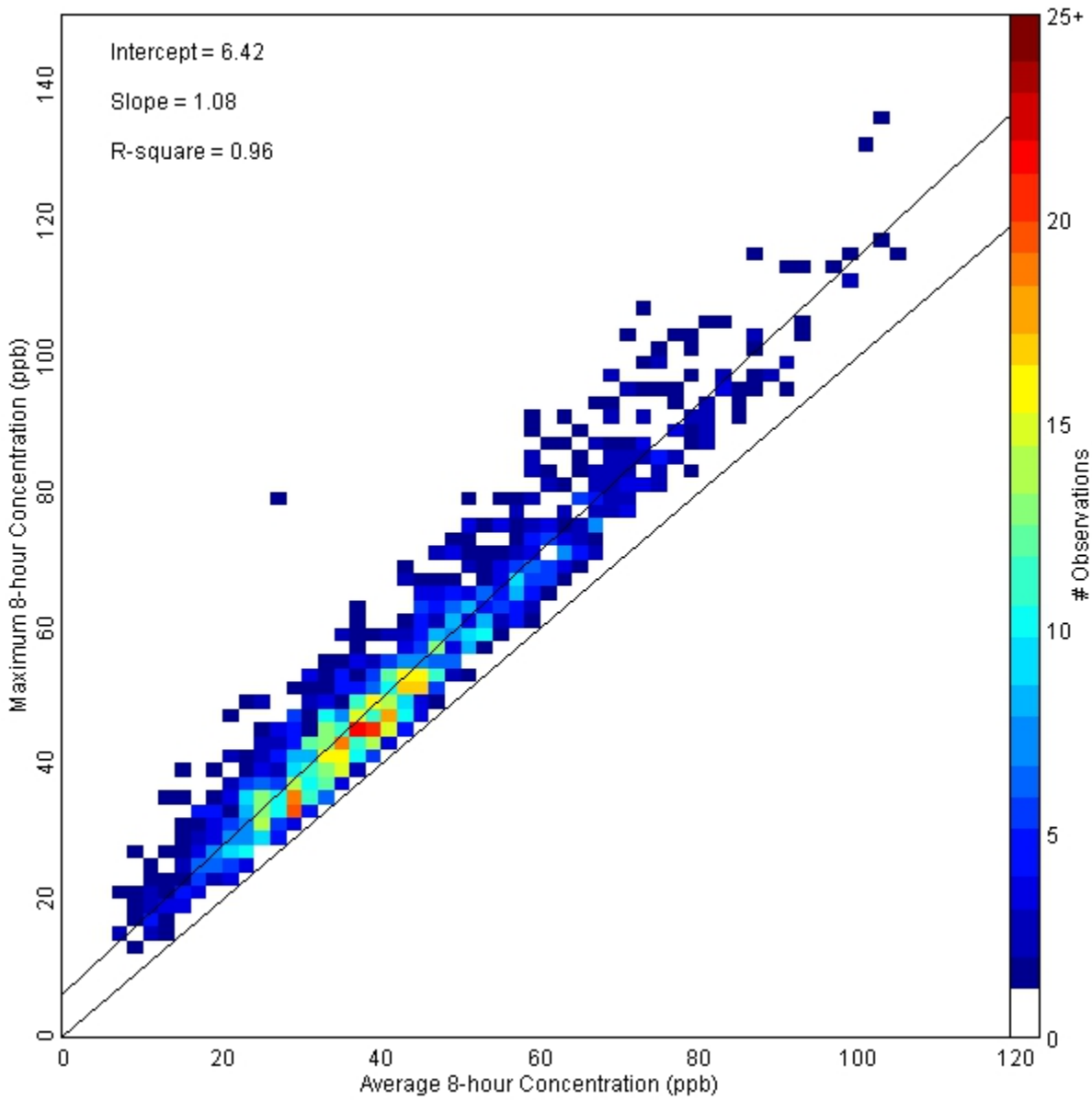

Figure 1-11 Average vs. Maximum Observed Daily 8-hour O_3 Concentrations in the New York City Area, April – August 1999 – 2006

Percentile	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%
Average	7	19	23	26	28	30	32	34	36	37	39
Maximum	14	27	31	34	36	38	41	43	45	46	48
Percentile	**50%**	**55%**	**60%**	**65%**	**70%**	**75%**	**80%**	**85%**	**90%**	**95%**	**100%**
Average	39	41	43	45	47	50	54	59	65	74	105
Maximum	48	50	52	54	58	62	66	71	79	88	135

Table 1-1 Percentiles of Average and Maximum Observed 8-hour O_3 Concentrations in the New York City Area, April – August 1999 – 2006

Avg. Conc. Range	0 5	6 10	11 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55
# Days	0	4	25	54	102	152	199	207	191	145	93
# Days > 75 ppb	0	0	0	0	0	1	0	0	0	0	3
Max Value	N/A	27	35	39	49	80	55	63	69	72	79
Avg. Conc. Range	**56 60**	**61 65**	**66 70**	**71 75**	**76 80**	**81 85**	**86 90**	**91 95**	**96 100**	**101 105**	**106 110**
# Days	73	65	47	38	24	19	11	7	3	4	1
# Days > 75 ppb	5	19	33	38	24	19	11	7	3	4	1
Max Value	80	91	93	108	103	106	116	114	115	135	115

Table 1-2 Summary Statistics on Observed O_3 Concentrations in the New York City Area, April – August 1999 – 2006

2 QUADRATIC ROLLBACK

2.1 INTRODUCTION

The "quadratic rollback" method was used in the previous O_3 NAAQS review to adjust ambient O_3 concentrations to simulate minimally meeting current and alternative standards (U.S. EPA, 2007). As the name implies, quadratic rollback uses a quadratic equation to reduce high concentrations at a greater rate than low concentrations. The intent is to simulate reductions in O_3 resulting from unspecified reductions in precursor emissions, without greatly affecting concentrations near ambient background levels (Duff et al., 1998).

Two independent analyses (Johnson, 2002; Rizzo, 2006) were conducted to compare quadratic rollback with other methods such as linear (proportional) rollback and distributional (Weibull) rollback. Both analyses used different rollback methods to reduce concentrations from a high O_3 year to simulate levels achieved during a low O_3 year, then compared the results to the ambient concentrations observed during the low O_3 year. Both analyses concluded that the quadratic rollback method replicates observed 8-hour O_3 distributions, particularly when the reduction in O_3 concentrations required to achieve the standard is small.

In this review, quadratic rollback was used to simulate reductions in O_3 concentrations in areas which failed to meet EPA's current O_3 NAAQS of 0.075 ppm (75 ppb). Hourly O_3 concentrations were reduced so that the highest design value (the 3-year average of the annual 4th highest daily maximum 8-hour O_3 concentration) in each area was exactly 75 ppb, the highest value meeting the NAAQS. Concentrations at the remaining monitors in each area were similarly reduced using the quadratic rollback coefficients calculated at the highest monitor. Quadratic rollback was performed independently within each area for two design value periods, 2006-2008 and 2008-2010.

2.2 METHODOLOGY AND APPLICATIONS

2.2.1 Methodology

The quadratic rollback method reduces ambient concentrations at a particular monitoring site to minimally meet a pre-specified "standard", defined by four factors:

1. Indicator – pollutant type or air quality measurement (e.g. O_3)
2. Averaging time – length of exposure period (e.g. 8-hour)
3. Form – statistic used to compare ambient data to the standard (e.g. design value)
4. Level – maximum value that meets the standard (e.g. 75 ppb)

Suppose we have concentration measurements C_k taken at times $k \in K$, which we wish to reduce to meet a standard with level S. We define the following based on the averaging time:

$$I_m = \sum_{k \in m} C_k / N_m \,, m \in K$$

$$J = \max_{k \in K}(C_k)$$

$$Q_m = \sum_{k \in m} C_k^2 / N_m \,, m \in K$$

where: I_m is the average of the concentrations observed in time period m,

J is the maximum concentration observed over the entire period,

Q_m is the average of the squared concentrations observed in time period m,

N_m is the number of concentrations observed in time period m.

In this particular case, the C_k's are hourly O_3 concentrations observed over a 3-year period, with an averaging time of rolling 8-hour intervals (e.g. 12AM-8AM, 1AM-9AM, etc.).

Next, we must evaluate rollback constants L and Q, which correspond to the linear and quadratic coefficients in the quadratic equation. These constants are calculated based on the form of the standard. In our particular case, the form of the standard is the 3-year average of the annual 4th highest daily maximum concentration. If we use the terms I_{ny} and Q_{ny} to denote the nth highest daily maximum 8-hour concentration (i.e. nth highest daily maximum value of I_m) observed in year y, then L and Q are calculated as follows:

$$L = \frac{1}{3} * \sum_{y=1}^{3} \frac{S}{I_{4y} - Q_{4y} / 2 * J}$$

$$Q = \begin{Bmatrix} \sum_{y=1}^{3} (I_{4y} - S) \Big/ \sum_{y=1}^{3} Q_{4y} \,, & if\ L \geq 1 \\ \left(L * \sum_{y=1}^{3} I_{4y} - 3 * S \right) \Big/ \sum_{y=1}^{3} Q_{4y} \,, & if\ L < 1 \end{Bmatrix}$$

These formulas are easily generalized for any nth highest concentration and any number of years. Further generalization to other forms is possible, but not relevant to this discussion.

Finally, L and Q are used to reduce or "roll back" the original concentrations:

$$C_k^* = \begin{Bmatrix} C_k - Q * C_k^2, & if\ L \geq 1 \\ L * C_k - Q * C_k^2, & if\ L < 1 \end{Bmatrix}$$

where C_k^* denotes the reduced concentration. Calculating the form-based "design value" statistic based on the C_k^* will result in a value of exactly S, the level of the standard.

2.2.2 Application to Air Quality Data for the Urban Case Studies

The O_3 monitors representing air quality in the 12 urban case study areas were chosen using the boundaries of areas designated non-attainment for the 1997 8-hour O_3 NAAQS (see Table 2-1). These non-attainment area boundaries were defined by EPA in 2004 to cover all of the O_3 monitors with air quality not meeting the NAAQS and contributing emissions sources. Thus, the selected boundaries are guaranteed to include all violating O_3 monitors within each area, and most importantly to include the monitor with the highest 3-year design value.

The regional nature of O_3 pollution dictates that these areas should be large in order to encompass most of the O_3 precursor emissions sources contributing to elevated O_3 levels in the area. Therefore, the boundaries in seven areas were expanded to include one or more smaller adjacent non-attainment areas. In particular, four of the urban areas (Baltimore, Boston, New York, and Philadelphia) make up a large urbanized corridor along the Atlantic coast. The intermediate non-attainment areas along this corridor were incorporated into one of these four areas to create a contiguous non-attainment region stretching from Virginia to New Hampshire.

The quadratic rollback method described in the previous section was applied to each of the 12 urban case study areas separately for 2006-2008 and 2008-2010, for a total of 24 reduction scenarios. In each area, the rollback constants L and Q were calculated for the monitor having the highest design value. The rollback constants were then used to reduce the hourly O_3 concentrations at all monitors within the area to just meet the current O_3 NAAQS (i.e. so that the highest design value in each area was exactly 75 ppb). Concentrations at the remaining monitors in each area were similarly reduced using the quadratic rollback coefficients calculated at the highest monitor. In some of the 12 urban areas, while the monitor with the highest design value was included in the boundaries of the rollback area, it was not within the area boundaries chosen to match the study areas in Zanobetti & Schwartz (2008), which were used in the risk assessment (U.S. EPA, 2012a, Chapter 7). In these cases, the high monitor was included in the quadratic rollback, and the ozone concentrations at the monitors within the Zanobetti & Schwartz (2008) study area were similarly reduced. In this way, while the high monitor outside of the study area would have been simulated to have a design value of 75 ppb to just meet the standard, the design value at the monitors within the study area would have been simulated to have design values below 75 ppb.

To avoid reducing O_3 concentrations below background levels, background "floor" values were set defining minimum values beyond which quadratic rollback would not be applied. Background concentrations were estimated from two GEOS-Chem modeling simulations for the model year of 2006: one with zero U.S. anthropogenic emissions (i.e. U.S. background) but with all other anthropogenic and natural emissions globally, and the other with all anthropogenic and biogenic emissions included (i.e. base case) (Zhang et al., 2011). The monitors in each study

area were paired with their appropriate GEOS-Chem grid cells, potentially matching multiple monitors to the same cell. The paired hourly U.S. background and base case concentrations were then spatially averaged in the same way as the O_3 monitoring data, as described in Chapter 4 of the Health REA (U.S. EPA, 2012a). Medians by area, month, and hour of the day were calculated from the spatially-averaged U.S. background and base case modeled concentrations, and ratios of the U.S. background to base case concentrations were calculated to provide monthly diurnal profiles of the ratio of U.S. background to total ozone for every month for every area[2]. Next, the U.S. background ratios were multiplied by the respective monitored values in each of the 5 years, 2006-2010, to obtain the U.S. background floor values.

The quadratic rollback values were adjusted so that concentrations reduced to less than their respective background floor values were set equal to either the floor value or the original monitored value, whichever was lower. Composite monitor values were calculated from the adjusted quadratic rollback values in the same manner described in Chapter 4 of the Health REA (U.S. EPA, 2012a). These data were used as inputs to the Benefits Mapping and Analysis Program (BenMAP; Abt Associates, 2010b) to simulate just meeting the current O_3 NAAQS.

[2] Values were set equal to one, if greater than one.

Table 2-1: O_3 **Non-attainment Areas for Quadratic Rollback in the Risk Assessment**

Urban Area	Nonattainment Area(s)	# of O_3 Monitors	2006-2008 Design Value (ppb)[3]	2008-2010 Design Value (ppb)[4]
Atlanta	**Atlanta, GA**	**10**	**95**	**80**
Baltimore	**Baltimore, MD** Washington, DC-MD-VA York, PA	**7** 18 3	**91** 87 80	**89** 81 74
Boston	**Boston-Lawrence-Worcester (Eastern Mass.), MA**[4] Boston-Manchester-Portsmouth, NH Providence (All of RI), RI	**9** 4 3	**82** 79 82	**76** 69 76
Cleveland	Canton-Massillon, OH **Cleveland-Akron-Lorain, OH** Youngstown-Warren-Sharon, OH-PA	2 **11** 4	80 **84** 81	73 **77** 74
Denver	**Denver-Boulder-Greeley-Ft. Collins-Loveland, CO**	**14**	**86**	**77**
Detroit	**Detroit-Ann Arbor, MI** Flint, MI	**8** 2	**81** 76	**75** 68
Houston	**Houston-Galveston-Brazoria, TX**	**21**	**91**	**84**
Los Angeles	**Los Angeles South Coast Air Basin, CA** Los Angeles-San Bernardino Cos. (Western Mojave), CA Riverside Co. (Coachella Valley), CA Ventura Co., CA	**28** 6 4 6	**119** 104 97 88	**112** 99 95 86
New York	Greater Connecticut, CT **New York-Northern New Jersey-Long Island, NY-NJ-CT** Poughkeepsie, NY	4 **23** 3	87 **89** 80	79 **84** 75
Philadelphia	Allentown-Bethlehem-Easton, PA Lancaster, PA **Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD** Reading, PA	3 2 **19** 2	80 82 **92** 80	76 77 **83** 79
Sacramento	**Sacramento Metro, CA**	**16**	**102**	**102**
St. Louis	**St. Louis, MO-IL**	**13**	**85**	**77**

[3] Value shown is the highest monitored ozone design value in the non-attainment area.

[4] Excluding Dukes County, MA and Nantucket County, MA (Martha's Vineyard and Nantucket Islands).

2.2.3 Application to National Air Quality Data

Quadratic rollback was applied to national air quality data from the 2006-2008 period, using the method described in Section 2.2.3, for the Welfare REA to create a national-scale fused surface of W126 concentrations when simulating just meeting the current standard of 0.075 ppb (U.S. EPA, 2012b, Chapter 4). Quadratic rollback was used to reduce O_3 concentrations in all areas of the U.S. with violating monitors to just meet the current NAAQS. Some areas with O_3 monitors violating the current NAAQS were not designated non-attainment for the 1997 8-hour O_3 NAAQS. Thus, a hierarchical method was used to group all monitors in the U.S. into "hypothetical" non-attainment areas. This method used the following logic to assign each O_3 monitor to an area:

1) Is the monitor in an area designated non-attainment for the 1997 O_3 NAAQS?
   A) If yes, the monitor is assigned to the non-attainment area.
   B) If no, go to step 2.
2) Is the monitor in a U.S. Census Combined Statistical Area (CSA)?
   A) If yes, was any part of the CSA designated non-attainment for the 1997 O_3 NAAQS?
      i) If yes, the monitor is assigned to the non-attainment area.
      ii) If no, the monitor is assigned to the CSA.
   B) If no, go to step 3.
3) Is the monitor in a U.S. Census Core-Based Statistical Area (CBSA)?
   A) If yes, was any part of the CBSA designated non-attainment for the 1997 O_3 NAAQS?
      i) If yes, the monitor is assigned to the non-attainment area.
      ii) If no, the monitor is assigned to the CBSA.
   B) If no, go to step 4.
4) Was any part of the county designated non-attainment for the 1997 O_3 NAAQS?
   A) If yes, the monitor is assigned to the non-attainment area.
   B) If no, the monitor is assigned to the county.

Next, quadratic rollback was applied to each hypothetical non-attainment area with at least one violating O_3 monitor. In each area, the rollback constants L and Q were calculated for the monitor having the highest design value. The rollback constants were then used to reduce the hourly O_3 concentrations at all monitors within the area. This approach was applied to the hourly O_3 concentrations from the 2006-2008 and 2008-2010 period.

The 2006-2008 W126 metric was then calculated from the hourly rollback concentrations. It should be noted that O_3 concentrations were only adjusted relative to the other monitors included in the hypothetical "non-attainment" area. In this way, areas where the 2006-2008 design values at all monitors were below 75 ppb would not have been affected by this

rollback methodology and the O_3 concentrations in those areas would not have changed. This was true even when these monitors were very close to, but outside of, other hypothetical "non-attainment" areas that were adjusted to simulate just meeting the current standard.

To generate a national-scale spatial surface that represents 2006-2008 W126 concentrations when attaining the current NAAQS, the spatial surface for 2006-2008 recent air quality was adjusted to reflect the rolled back W126 monitor concentrations. Figure 1 depicts this process and it is shown mathematically in the equation below.

$$\text{Adjusted } AQ_{ij} = \frac{\text{VNA Interpolated } AQ_{ij} \text{ from Original Design Values}}{\text{VNA Interpolated } AQ_{ij} \text{ from Rolled Back Design Values}} \cdot \text{Modeled CMAQ } AQ_{ij}$$

where *ij* refers to column *i* and row *j* of the CMAQ grid and *AQ* stands for air quality. Because steep changes in W126 concentrations can be observed near a monitor, we used the inverse distance squared VNA approach. Typically, however, the results are not particularly sensitive to the interpolation method.

Because the VNA rollback approach interpolates monitor values, it is most reliable in areas with a denser monitoring network. In areas with a sparser monitoring network, there is less observed monitoring data to support the VNA interpolation and we have less confidence in the predicted air quality values further away from the monitors. However, to the extent that any bias in the interpolated values is present in both the model and rolled back design values, the ratio of the interpolated values should be relatively insensitive to this bias and the adjusted air quality values should be unaffected.

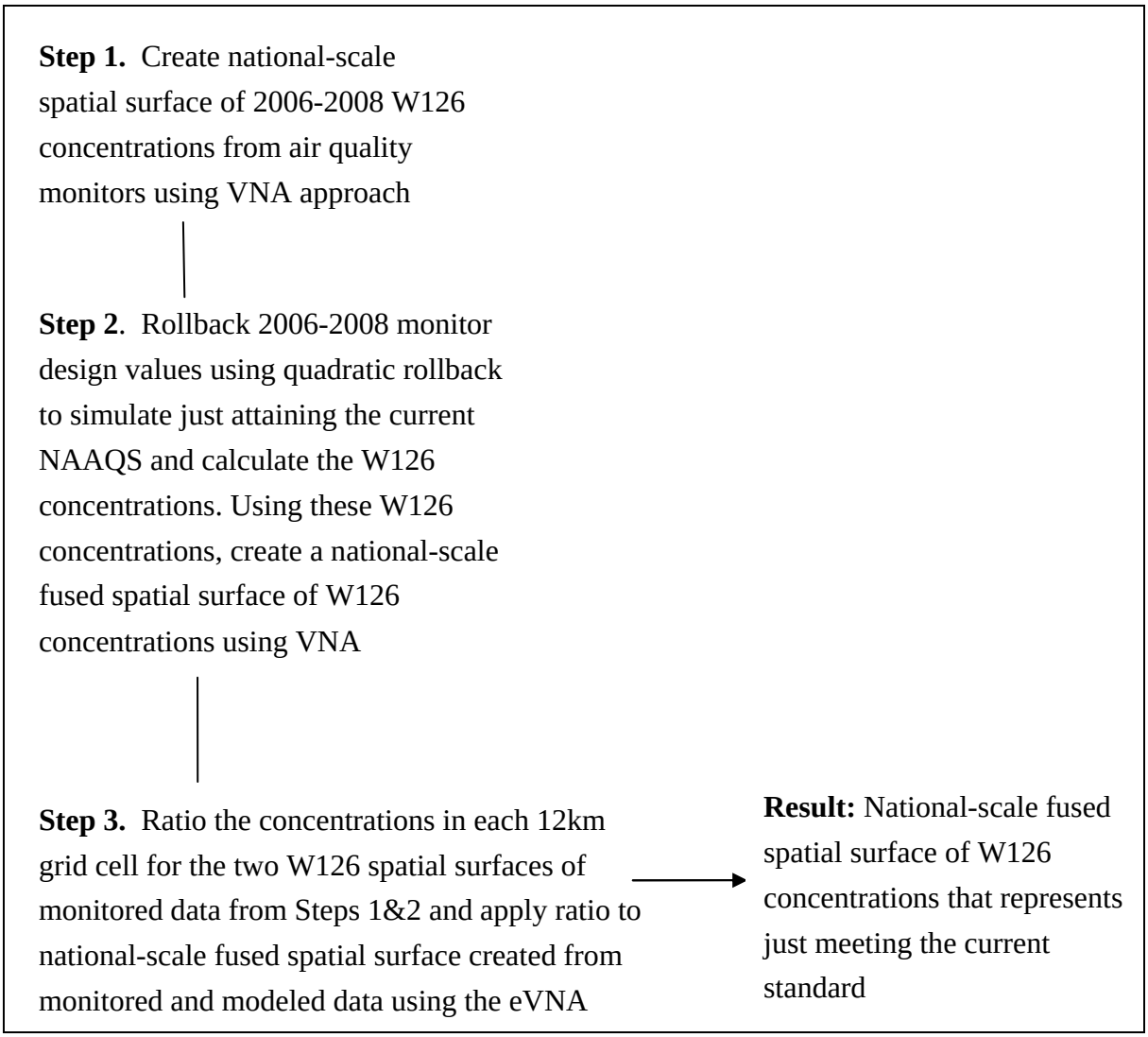

Figure 2-1: Diagram of Rollback Method for Creating National-scale Fused Surface that Represents just Meeting the Current Standard

2.3 RESULTS AND DISCUSSION

In this section, we present and discuss results from several analyses conducted to evaluate the data resulting from the application of quadratic rollback to simulate just meeting the current O_3 standard (the "rollback" data) described in this memorandum, and to compare the rollback data with the current conditions air quality data (the "observed" data) described in Chapter 1 and in the Health REA (U.S. EPA, 2012a) and Welfare REA (U.S. EPA, 2012b). The figures presented in this section were created using R, a free, open-source statistical computing software package (R Core Team, 2012).

2.3.1 Evaluation of Quadratic Rollback in the Urban Case Studies

2.3.1.1 U.S. Background Floor Values

Figure 2-2 shows diurnal profiles of seasonally averaged background floor values for the 12 urban case study areas in the risk assessment. The background floor values show a diurnal pattern similar to that of the observed O_3 concentrations, with the highest values occurring in the early afternoon hours and the lowest values occurring around sunrise. Generally, the highest background values occurred in the spring, while the other three seasons were more difficult to distinguish. Denver was a notable exception to this pattern, having nearly identical background floor values in the spring and summer months.

Figure 2-3 shows box-and-whisker plots of the background floor values in the 12 urban case study areas. The distribution of the background floor values varied from area to area, but generally ranged from near 0 to between 30 and 40 ppb, with median between 10 and 20 ppb.

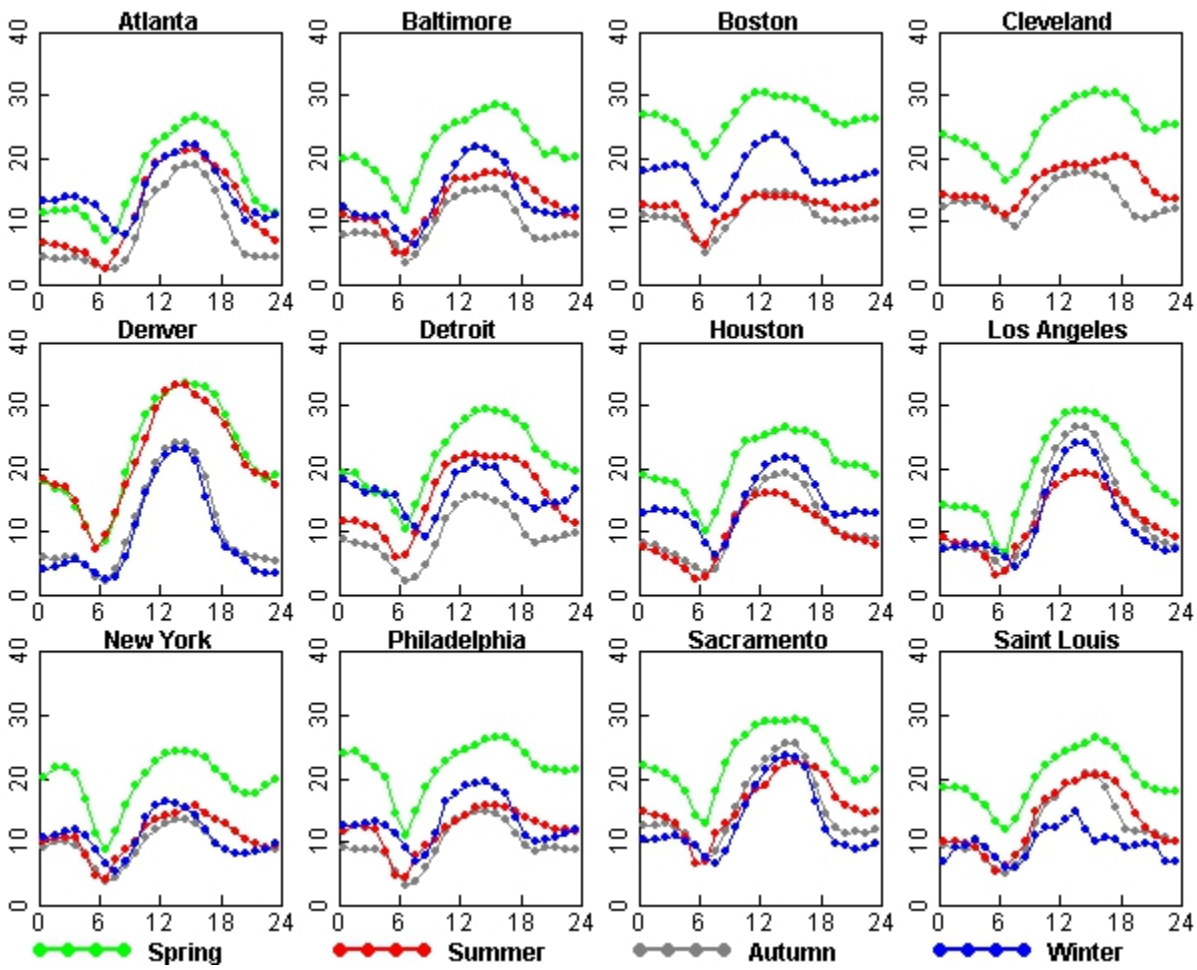

Figure 2-2 Diurnal Profiles of Seasonally Averaged U.S. Background Floor Values in the Urban Case Study Areas

Notes: Values shown are 2006-2010 averages, in parts per billion. Seasons were defined as Spring = March – May, Summer = June – August, Autumn = September – November, Winter = December – February. Winter values are missing for Cleveland because no monitoring data were available for that period.)

Table 2-2 contains selected summary statistics generated to evaluate the frequency and magnitude of the U.S. background adjustments in the quadratic rollback procedure. Overall, over 20% of the rollback concentrations were adjusted. However, the average magnitude of the adjustments was very small (< 0.2 ppb), and even the largest adjustment was less than 5 ppb. Moreover, over 95% of the adjustments simply returned the rollback concentrations to their original monitored values instead of the modeled U.S background value. In conclusion, the U.S. background adjustment procedure had little effect on the rollback concentrations.

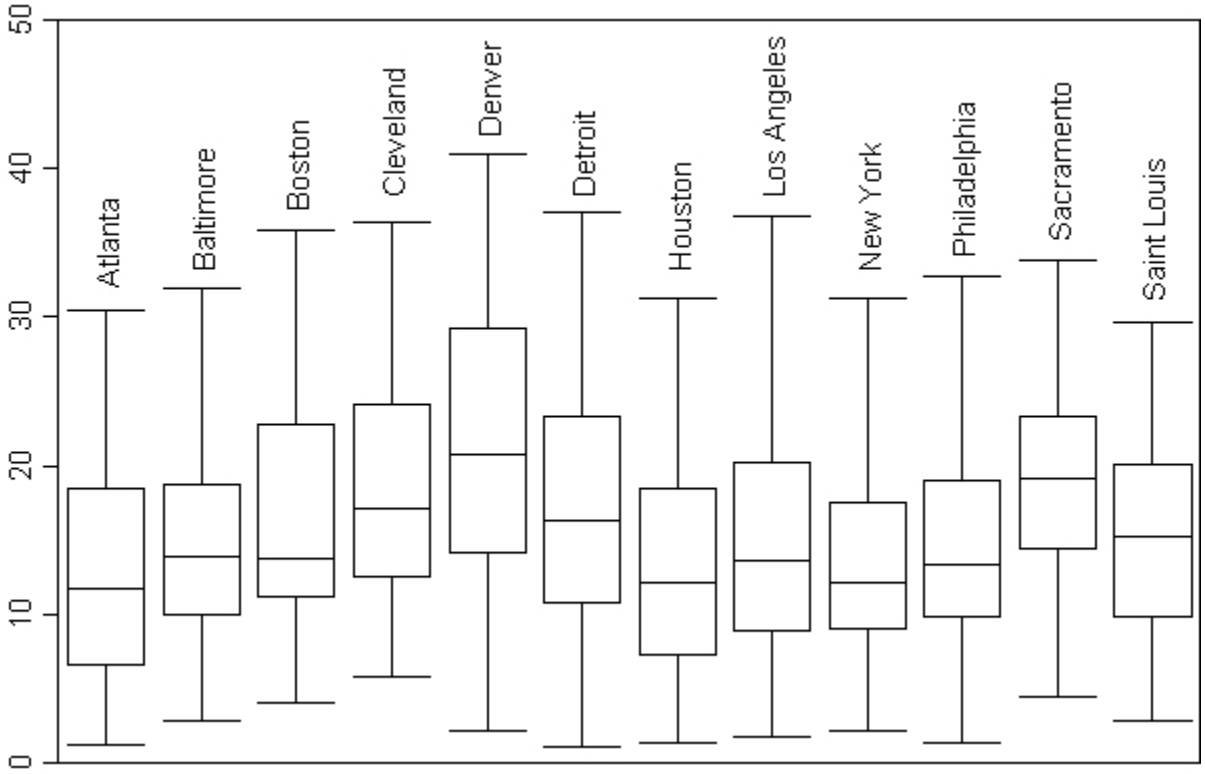

Figure 2-3 Distribution of U.S. Background Floor Values in the Urban Case Study Areas

Notes: Data shown are April – September 2006-2010 background floor values in parts per billion.

Table 2-2 Frequency and Magnitude of the U.S. Background Adjustments, 2006 – 2008

Urban Area	% Rollback Values Adjusted	% Replaced with Monitor Values	% Replaced with Floor Values	Average Adjustment (ppb)	Maximum Adjustment (ppb)
Atlanta	16.7	97.2	2.8	0.10	2.3
Baltimore	19.7	96.8	3.2	0.15	2.2
Boston	16.4	96.3	3.7	0.17	1.2
Cleveland	20.0	96.2	3.8	0.18	1.6
Denver	14.4	96.2	3.8	0.20	2.4
Detroit	14.9	96.8	3.2	0.13	1.3
Houston	28.4	96.4	3.6	0.15	1.6
Los Angeles	24.6	93.9	6.1	0.29	4.5
New York	16.4	96.7	3.3	0.09	1.4
Philadelphia	18.7	96.2	3.8	0.16	2.0
Sacramento	24.3	92.1	7.9	0.34	3.0
Saint Louis	12.8	97.1	2.9	0.11	1.1
OVERALL	20.5	95.5	4.5	0.17	4.5

2.3.1.2 Comparison of Observed versus Rollback Concentrations

Two data analyses were conducted to compare the rollback concentrations to observed concentrations. The first analysis compared the distribution of observed O_3 concentrations to the distribution of rollback concentrations in the 12 urban case study areas. The second analysis compared the distribution of rollback concentrations in six of the urban case study areas to the distribution of observed concentrations in six paired areas just meeting the current standard. The observed and rollback distributions in both analyses were compared to understand how quadratic rollback affects the observed O_3 concentrations, and how the rollback concentrations compare to observed concentrations in areas just meeting the current standard.

Table 2-3a compares the distribution of observed hourly O_3 concentrations with the distribution of rollback hourly concentrations in the 12 urban case study areas for 2006-2008. Table 2-3b makes a similar comparison between the distributions of daily maximum 8-hour O_3 concentrations. Quadratic rollback was designed to reduce high O_3 concentrations at a greater rate than low O_3 concentrations, which is clearly evident from the tables. Hourly concentrations in the lowest quartile were almost unaffected by quadratic rollback, while the median hourly values were reduced by only 1 to 3 ppb. On the other hand, hourly concentrations in the extreme right tail of the distribution were reduced by 50 ppb or more in some areas. The reductions in the daily maximum 8-hour concentrations were generally larger than the reductions in the hourly concentrations, except in the extreme right tail of the distribution.

The large number of “2’s” in the tables reflects the AQS convention of replacing reported values less than the minimum detection limit (MDL) for O_3 instruments with ½ of the MDL.

Currently, the MDL for all EPA approved O_3 monitoring instruments is 5 ppb. NOx titration often causes O_3 concentrations to drop to near zero overnight in urban areas, thus 10-25% of the observed hourly concentrations are below 10 ppb, compared with less than 5% of the daily maximum 8-hour concentrations.

Table 2-3a Distribution of Hourly O_3 Concentrations in the Urban Case Study Areas, 2006-2008

Urban Area	Status	Min	1%	5%	10%	25%	50%	75%	90%	95%	99%	Max
Atlanta	Observed	2	2	2	2	16	31	47	61	68	85	155
	Rollback	2	2	2	2	15	28	42	53	58	69	104
Baltimore	Observed	2	2	2	2	15	28	43	57	66	81	143
	Rollback	2	2	2	2	14	26	39	51	58	69	105
Boston	Observed	2	2	2	10	20	31	43	53	61	77	146
	Rollback	2	2	2	9	19	30	41	50	57	71	131
Cleveland	Observed	2	2	2	8	19	31	44	56	63	77	113
	Rollback	2	2	2	8	18	29	41	50	57	71	97
Denver	Observed	2	2	2	6	20	35	47	57	63	76	112
	Rollback	2	2	2	6	19	33	43	52	57	67	94
Detroit	Observed	2	2	2	9	19	31	44	55	62	78	128
	Rollback	2	2	2	8	19	30	42	52	58	72	112
Houston	Observed	2	2	2	2	10	21	34	47	57	75	160
	Rollback	2	2	2	2	9	20	31	43	50	64	113
Los Angeles	Observed	2	2	2	2	11	29	44	59	70	92	176
	Rollback	2	2	2	2	11	26	37	47	54	66	85
New York	Observed	2	2	2	2	15	27	39	51	59	79	167
	Rollback	2	2	2	2	15	26	37	46	53	68	118
Philadelphia	Observed	2	2	2	2	16	28	41	55	64	80	142
	Rollback	2	2	2	2	15	26	37	49	56	67	103
Sacramento	Observed	2	2	2	5	16	29	41	55	65	84	166
	Rollback	2	2	2	5	16	26	36	47	54	66	99
Saint Louis	Observed	2	2	2	7	17	28	42	55	62	78	133
	Rollback	2	2	2	6	16	26	39	51	57	70	110

Table 2-3b Distribution of Daily Maximum 8-hour O_3 Concentrations in the Urban Case Study Areas, 2006-2008

Urban Area	Status	Min	1%	5%	10%	25%	50%	75%	90%	95%	99%	Max
Atlanta	Observed	2	18	26	31	40	51	61	71	78	93	124
	Rollback	2	17	24	28	36	45	52	60	64	74	90
Baltimore	Observed	2	7	17	22	31	44	57	68	75	86	125
	Rollback	2	7	16	21	29	40	51	59	64	72	96
Boston	Observed	2	12	20	25	32	41	51	62	70	83	130
	Rollback	2	11	19	24	30	39	48	58	64	76	113
Cleveland	Observed	2	16	23	27	34	45	55	66	71	82	103
	Rollback	2	16	22	26	32	42	51	60	65	73	89
Denver	Observed	2	9	18	24	35	45	57	65	70	79	98
	Rollback	2	9	18	23	33	42	52	59	62	69	84
Detroit	Observed	2	17	25	29	36	45	54	64	71	83	100
	Rollback	2	17	24	27	34	43	51	59	65	76	90
Houston	Observed	2	8	16	19	25	35	47	60	67	83	126
	Rollback	2	8	15	18	24	32	42	52	58	69	97
Los Angeles	Observed	2	10	19	25	35	44	58	73	82	100	142
	Rollback	2	10	18	23	30	37	46	56	60	69	81
New York	Observed	2	6	15	20	28	38	49	62	71	87	130
	Rollback	2	6	15	20	27	36	45	55	62	73	99
Philadelphia	Observed	2	8	17	22	31	42	55	67	74	85	125
	Rollback	2	7	16	21	28	38	48	58	63	71	94
Sacramento	Observed	2	9	17	23	32	42	54	67	76	92	123
	Rollback	2	9	17	21	29	37	46	55	61	70	85
Saint Louis	Observed	2	11	19	23	33	44	55	64	71	84	113
	Rollback	2	10	18	22	30	41	50	59	64	75	95

Figure 2-4 shows histograms of the 2006-2008 observed and rollback 8-hour daily maximum concentrations in Detroit and Los Angeles. Detroit represents the mild case where the observed 2006-2008 design value was nearest to meeting the standard, while Los Angeles represents the extreme case with the highest design value, and the only case where the quadratic coefficient L was less than 1. It is interesting to note that although the right tail of the observed distribution is much greater in Los Angeles than in Detroit, the right tail of the rollback distribution is actually greater in Detroit than in Los Angeles.

In the second analysis, six of the urban case study areas were paired with another area in the same region of the U.S. which was designated non-attainment for the 1997 O_3 NAAQS. Each of these six "attaining" areas had a 2008-2010 design value within 1 ppb of the current standard of 75 ppb. The distribution of the rollback concentrations in each case study area was compared to the observed distribution in the respective attaining area. The six pairings and their respective hourly and daily maximum 8-hour distributions are shown in Table 2-4.

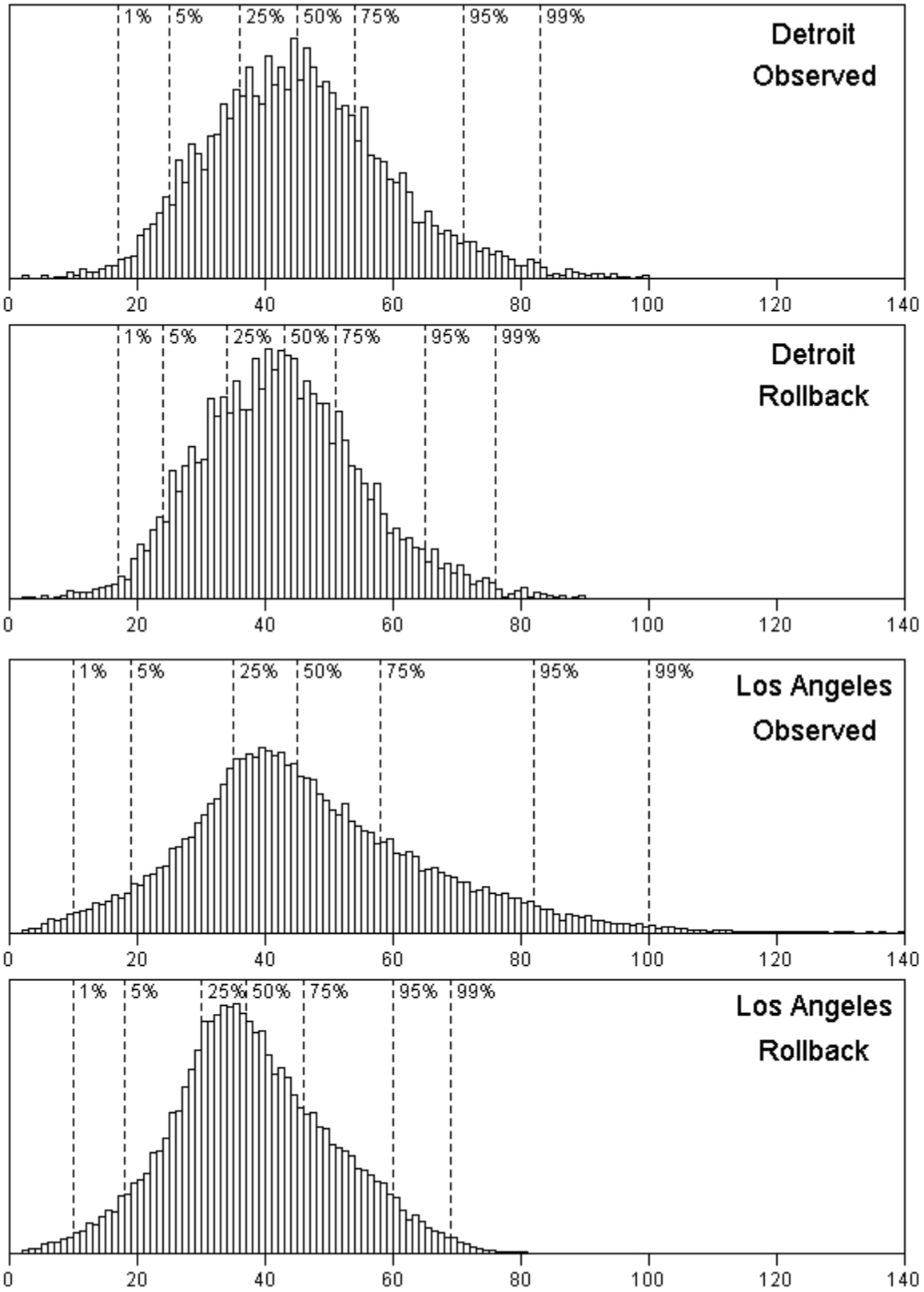

Figure 2-4 Histograms of Observed and Rollback Concentrations in Detroit and Los Angeles, 2006-2008

Table 2-4 Rollback Concentrations in Urban Case Study Areas Compared to Observed Concentrations in Attaining Areas, 2008-2010

Hourly Concentrations												
Urban Area	**Status**	**Min**	**1%**	**5%**	**10%**	**25%**	**50%**	**75%**	**90%**	**95%**	**99%**	**Max**
Beaumont	Observed	2	2	2	8	16	25	37	48	55	68	111
Houston	Rollback	2	2	2	2	11	21	32	43	50	64	125
Birmingham	Observed	2	2	2	2	13	27	41	52	59	72	108
Atlanta	Rollback	2	2	2	2	14	27	40	52	59	71	120
Boston	Observed	2	2	5	11	21	31	41	50	56	69	128
New York	Rollback	2	2	2	5	15	26	36	46	52	66	123
Chicago	Observed	2	2	2	6	16	27	37	47	53	65	118
Saint Louis	Rollback	2	2	2	7	16	28	39	51	57	69	111
Detroit	Observed	2	2	2	8	19	31	42	52	59	70	122
Cleveland	Rollback	2	2	2	9	19	31	42	52	59	69	101
Richmond	Observed	2	2	5	10	20	32	45	56	62	75	134
Baltimore	Rollback	2	2	2	6	16	27	39	49	55	66	103
Daily Maximum 8-Hour Concentrations												
Urban Area	**Status**	**Min**	**1%**	**5%**	**10%**	**25%**	**50%**	**75%**	**90%**	**95%**	**99%**	**Max**
Beaumont	Observed	2	13	18	21	27	37	47	57	62	72	91
Houston	Rollback	2	9	15	19	25	33	43	52	58	69	94
Birmingham	Observed	2	14	21	25	33	43	53	61	65	76	95
Atlanta	Rollback	2	12	20	25	34	43	53	60	65	75	99
Boston	Observed	2	13	21	25	31	40	49	57	63	75	106
New York	Rollback	2	8	15	20	27	35	44	54	60	71	96
Chicago	Observed	2	10	16	20	28	37	46	54	60	69	94
Saint Louis	Rollback	2	11	18	23	32	41	51	58	63	72	93
Detroit	Observed	2	15	21	27	35	44	52	60	65	74	95
Cleveland	Rollback	2	15	22	26	34	43	52	60	65	74	88
Richmond	Observed	2	18	25	29	37	47	56	63	68	80	110
Baltimore	Rollback	2	10	18	22	29	39	49	57	61	70	93

The results were mixed. In two of the urban case study areas (Atlanta and Cleveland), the rollback distributions matched the observed distributions in their respective attaining areas almost perfectly. In three of the areas, (Baltimore, Houston, and New York) values near the center of the rollback distributions were 3-10 ppb lower than their respective values in the observed distributions. Finally, values near the center of the rollback distribution in Saint Louis were 1-5 ppb higher than those in the observed distribution in Chicago. It is interesting to note that the 2008-2010 design values in Atlanta, Cleveland, and Saint Louis were reduced by 5 ppb or less, while the 2008-2010 design values in Baltimore, Houston, and New York were reduced by 9 ppb or more.

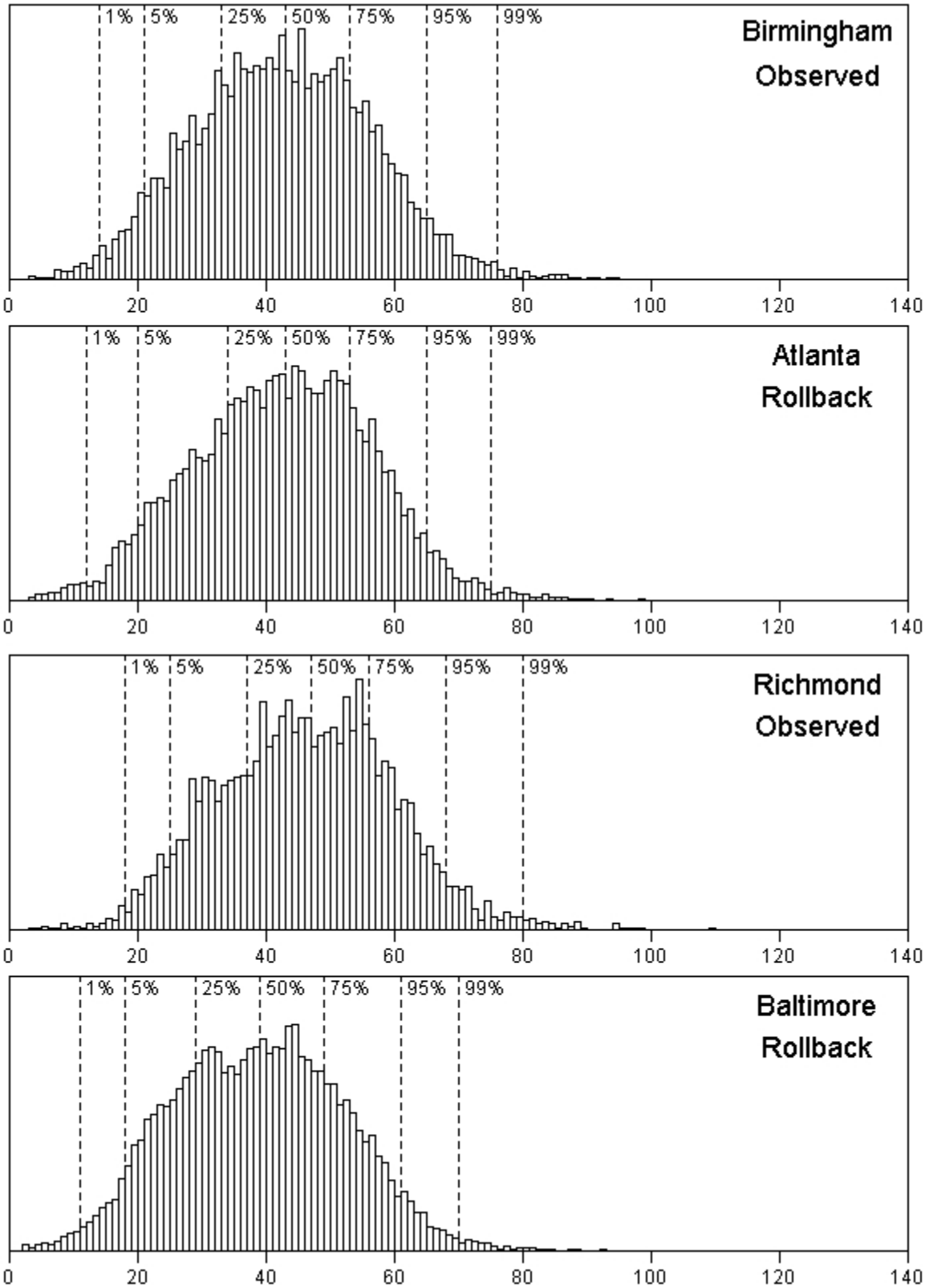

Figure 2-5 Histograms Comparing Rollback Concentrations in Atlanta and Baltimore to Observed Concentrations in Birmingham and Richmond, 2008-2010

Figure 2-5 shows histograms comparing the distribution of daily maximum 8-hour O_3 concentrations in the "best case" (Atlanta-Birmingham) and "worst case" (Baltimore-Richmond) pairings. The distributions in the former pairing are almost identical, while the latter pairing clearly shows the entire rollback distribution shifted leftward from the observed distribution.

In conclusion, quadratic rollback replicates observed ozone distributions of nearby cities in some cases, particularly when the reduction in O_3 concentrations required to achieve the standard is small. When the required reduction is larger, differences between the rollback concentrations and observed data attaining the standard become more apparent.

One such difference is the tendency for quadratic rollback to predict concentrations in the left tail of the distribution at higher frequency. This phenomenon occurs because quadratic rollback assumes that O_3 concentrations never increase in response to reduced precursor emissions. In reality, lowering precursor emissions in urban areas results in less NOx titration, and thus fewer concentrations are observed below ambient background levels.

Another difference is the tendency for quadratic rollback to predict concentrations in the right tail of the distribution at a lower frequency than are observed in measurements from nearby cities. This phenomenon occurs because quadratic rollback assumes that all monitors within an urban area exhibit the same response to reduced precursor emissions. As discussed by Simon et al. (2012) this is usually not the case and different monitors may respond differently to emissions reductions, particularly at different hours of the day.

2.3.1.3 Composite Monitor Comparison

Figure 2-6 shows seasonal average diurnal profiles of the observed and rollback composite monitor values in the 12 urban case study areas for 2006-2008. The gray and blue lines are averages over the required O_3 monitoring season (see Table 1-1), while the red and green lines are averages over the "peak" O_3 months, June – August. The June – August averages are higher than the O_3 season averages, except in Houston where the highest O_3 concentrations are often 6 observed in April-May and September-October. The diurnal patterns are generally quite similar from area to area, with most of the variation occurring in the peak heights during the daytime hours.

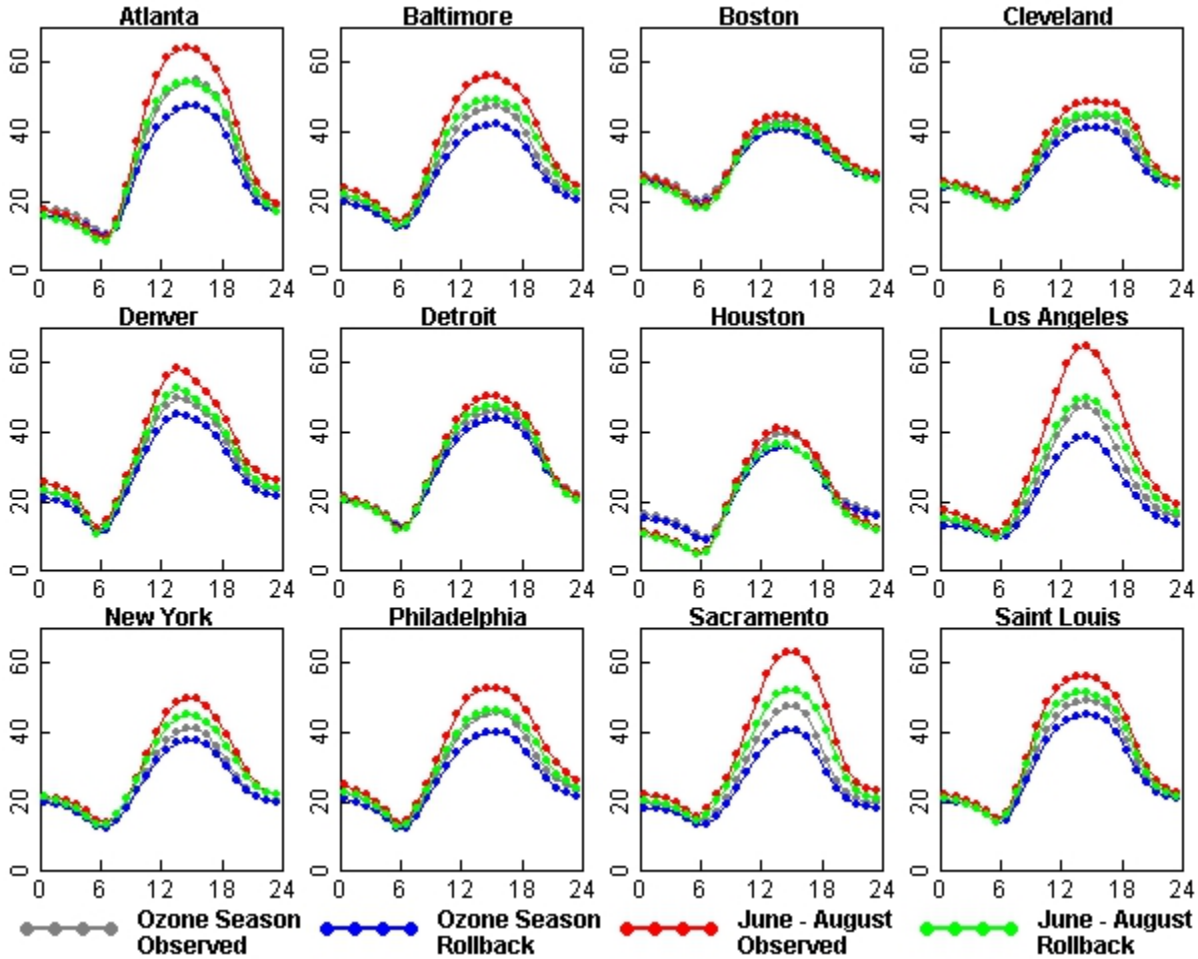

Figure 2-6 Diurnal Profiles of Seasonally Averaged Composite Monitor Values in the Urban Case Study Areas, 2006-2008

Table 2-6 shows the distribution of the hourly composite monitor values calculated from the observed and rollback concentrations in the 12 urban case study areas in 2006-2008, and Table 2-7 shows the distribution of the respective daily maximum 8-hour composite monitor values. The distributions are similar to those shown for the observed data in Tables 2-3 and 2-4, except for reduced variance in the tails of the distributions due to the spatial averaging. The distributions of the daily maximum 1-hour and daily mean 8-hour (10AM – 6PM) composite monitor values are not shown because they were already highly correlated (R > 0.96) with the daily maximum 8-hour values.

Table 2-5a Distribution of Hourly Composite Monitor Values in the Urban Case Study Areas, 2006-2008

Urban Area	Status	Min	1%	5%	10%	25%	50%	75%	90%	95%	99%	Max
Atlanta	Observed	2	2	2	5	13	28	45	61	69	85	130
	Rollback	2	2	2	5	12	25	40	53	59	69	94
Baltimore	Observed	2	2	2	6	16	28	41	55	63	78	112
	Rollback	2	2	2	6	15	26	38	49	55	67	88
Boston	Observed	2	5	10	14	21	31	41	52	60	74	97
	Rollback	2	5	10	13	20	29	39	49	56	68	87
Cleveland	Observed	2	5	9	12	20	30	41	53	61	74	99
	Rollback	2	5	9	12	19	28	39	49	56	67	86
Denver	Observed	2	2	2	7	16	30	44	54	60	70	97
	Rollback	2	2	2	6	15	28	40	49	54	62	83
Detroit	Observed	2	2	2	6	16	29	41	53	60	77	97
	Rollback	2	2	2	6	16	28	39	50	57	71	87
Houston	Observed	2	2	3	5	11	20	32	46	55	72	111
	Rollback	2	2	3	4	10	19	30	41	49	62	88
Los Angeles	Observed	2	3	5	6	10	22	36	50	60	76	111
	Rollback	2	3	4	5	9	19	31	41	47	57	71
New York	Observed	2	2	4	7	13	24	35	47	56	76	109
	Rollback	2	2	4	7	13	23	33	43	51	66	90
Philadelphia	Observed	2	2	4	7	16	28	40	53	62	77	106
	Rollback	2	2	4	6	15	26	36	46	53	64	91
Sacramento	Observed	2	2	5	7	14	25	37	51	61	81	118
	Rollback	2	2	5	7	14	23	33	44	51	64	82
Saint Louis	Observed	2	2	5	9	17	29	43	56	63	78	107
	Rollback	2	2	5	8	16	28	40	52	58	70	92

Figures 2-7a and 2-7b compare the observed hourly and daily maximum 8-hour concentrations to their respective composite monitor values in 2006-2008. The correlation between the observed and composite values is generally very high ($R > 0.9$), except in Los Angeles, where the unique terrain causes a larger amount of spatial variability between the O_3 monitors. It is interesting to note that while the highest observed concentrations occurred in Houston and Los Angeles, these areas also had the most monitors. The highest composite monitor values occurred in Atlanta, where there were fewer monitors and less spatial variability in the observed concentrations.

Table 2-5b Distribution of Daily Maximum 8-hour Composite Monitor Values in the Urban Case Study Areas, 2006-2008

Urban Area	Status	Min	1%	5%	10%	25%	50%	75%	90%	95%	99%	Max
Atlanta	Observed	7	17	25	30	40	52	62	72	78	90	111
	Rollback	7	17	24	28	36	46	53	60	64	72	82
Baltimore	Observed	12	15	21	25	34	44	56	65	72	82	92
	Rollback	12	14	20	23	31	40	49	57	62	69	75
Boston	Observed	12	17	23	26	32	41	50	61	68	78	89
	Rollback	12	16	22	25	30	38	47	57	63	71	81
Cleveland	Observed	12	17	23	26	33	42	52	63	69	78	88
	Rollback	11	16	22	25	31	40	48	58	63	70	78
Denver	Observed	4	16	25	30	39	47	55	61	64	70	84
	Rollback	4	15	23	28	36	43	50	54	57	62	71
Detroit	Observed	10	16	24	28	35	43	53	63	70	81	89
	Rollback	10	16	23	27	33	41	50	59	66	75	81
Houston	Observed	3	10	17	20	25	34	46	58	65	79	97
	Rollback	3	10	16	19	24	31	41	51	56	67	78
Los Angeles	Observed	7	12	18	21	29	41	52	62	68	78	90
	Rollback	7	12	16	19	26	35	42	48	52	57	63
New York	Observed	9	12	16	21	28	37	47	61	68	82	93
	Rollback	9	12	16	20	27	35	43	54	60	68	77
Philadelphia	Observed	9	14	20	24	33	43	53	65	71	80	96
	Rollback	9	13	19	22	30	38	46	55	60	67	82
Sacramento	Observed	5	10	17	21	32	41	52	65	72	86	99
	Rollback	5	10	16	20	29	37	45	54	59	67	74
Saint Louis	Observed	8	15	23	29	37	47	56	64	72	82	93
	Rollback	8	14	22	27	34	43	52	58	65	73	81

Figures 2-7c and 2-7d compare the rollback hourly and daily maximum 8-hour concentrations to their respective composite monitor values in 2006-2008. Aside from the reduced magnitude of the right-tail concentrations, the overall pattern is very similar to that of the observed data. In several areas, the correlation between the rollback values and their respective composite values is even higher than in the observed case. It is interesting to note that while the largest range of observed concentrations occurred in Los Angeles, the rollback concentrations in this area actually have the smallest range of the 12 urban areas.

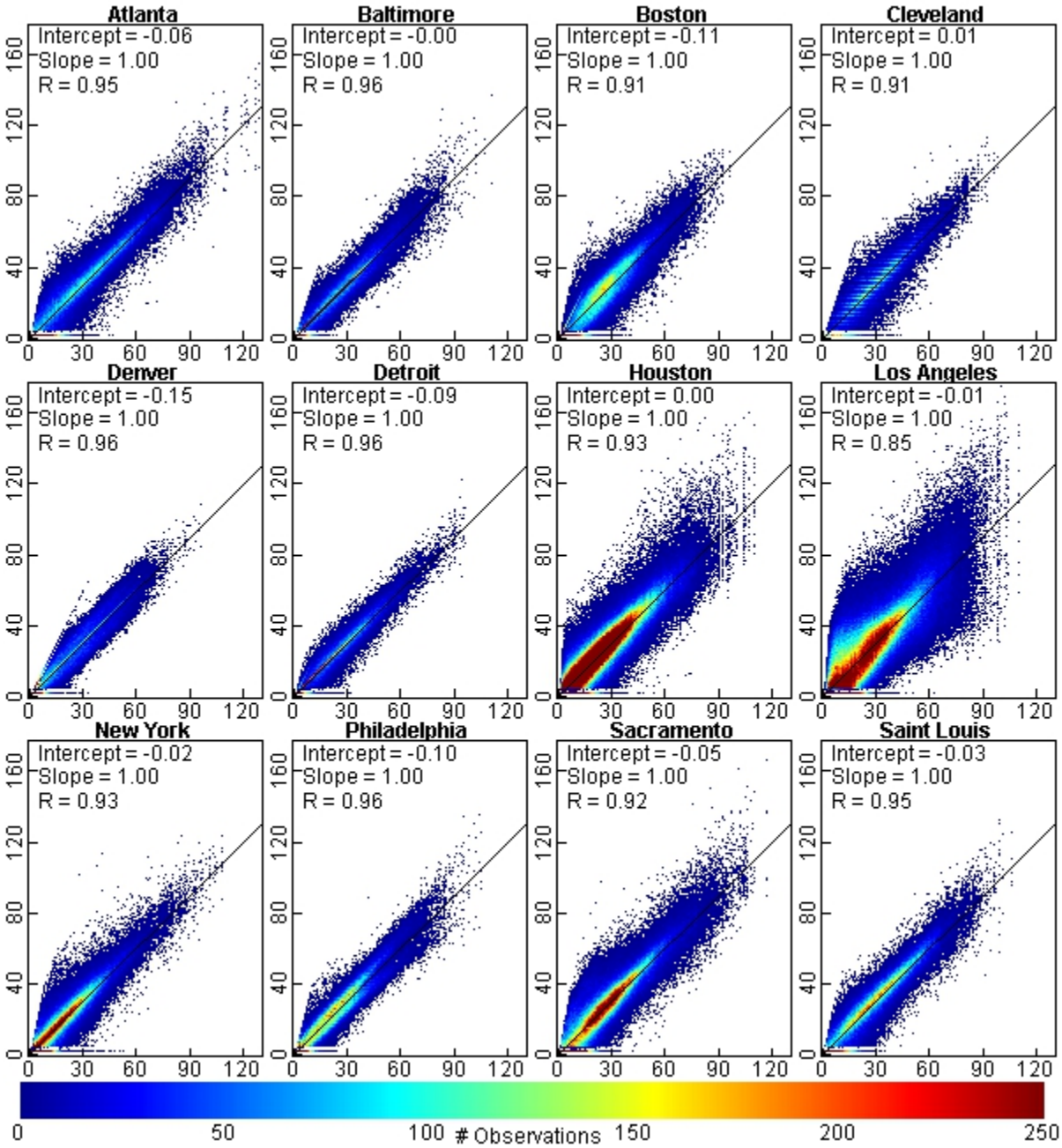

Figure 2-7a Composite Monitor Values (x-axis) vs. All Monitored Concentrations (y-axis) in the Urban Case Study Areas, Observed Hourly 2006-2008

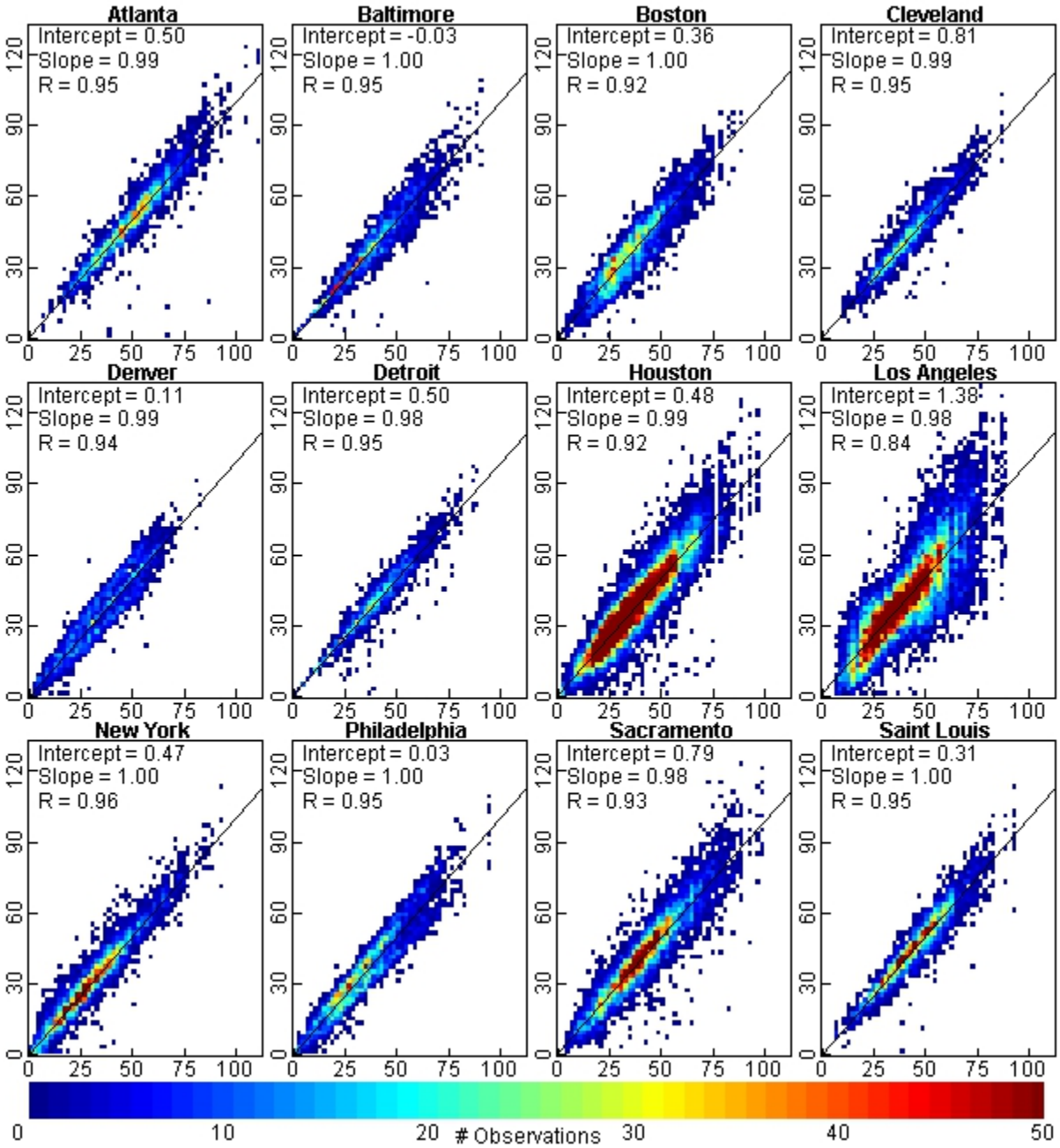

Figure 2-7b Composite Monitor Values (x-axis) vs. All Monitored Concentrations (y-axis) in the Urban Case Study Areas, Observed 8-hour Daily Maximum 2006-2008

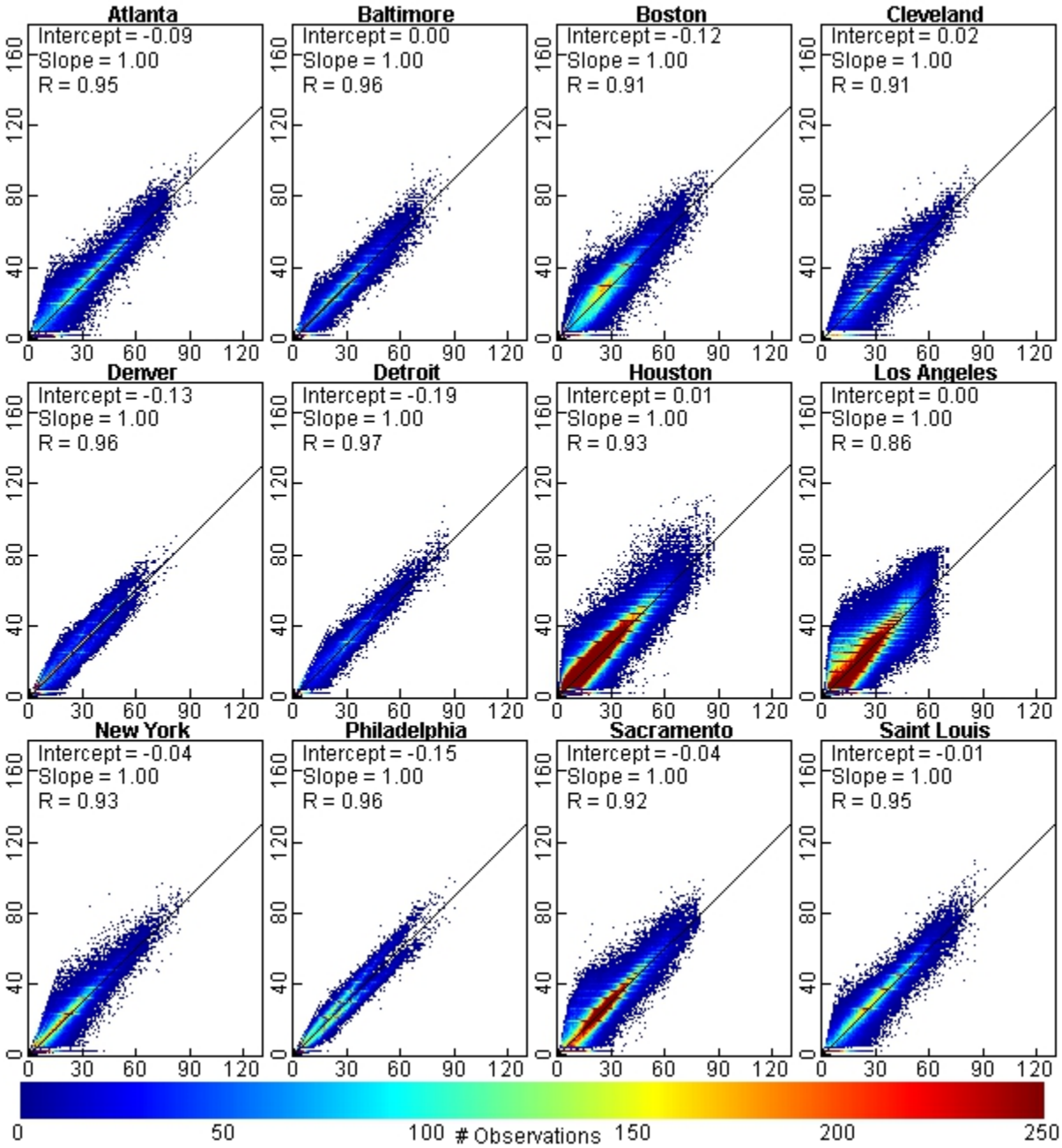

Figure 2-7c Composite Monitor Values (x-axis) vs. All Monitored Concentrations (y-axis) in the Urban Case Study Areas, Rollback Hourly 2006-2008

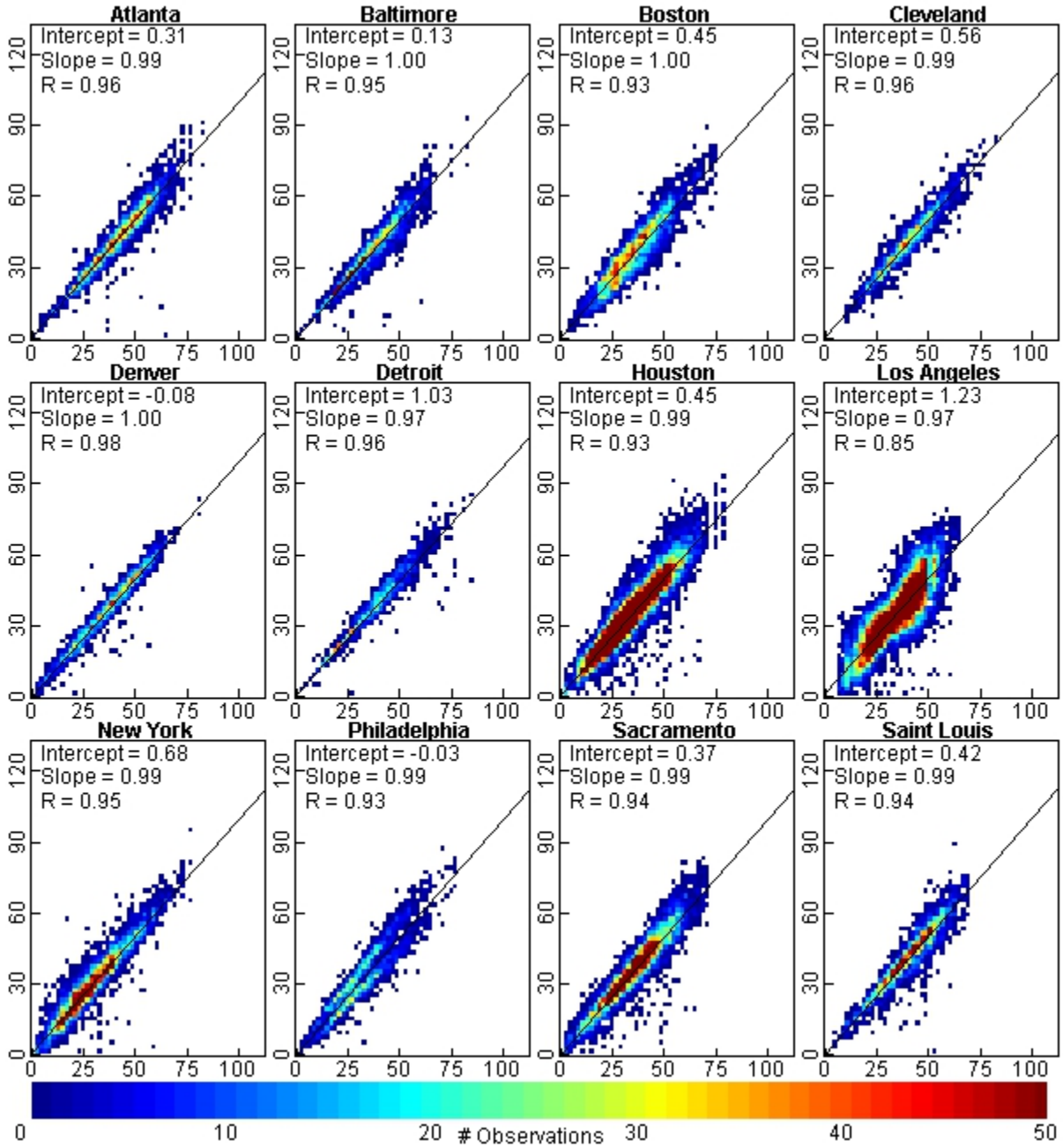

Figure 2-7d Composite Monitor Values (x-axis) vs. All Monitored Concentrations (y-axis) in the Urban Case Study Areas, Rollback 8-hour Daily Maximum 2006-2008

2.3.1.4 Seasonal O_3 Metrics

Health and welfare studies often characterize effects in terms of exposure metrics other than the current NAAQS metric (3-year average of the 4th highest daily maximum 8-hour O_3 concentration). In order to better understand air quality trends in seasonal O_3 concentrations, and how these vary with respect to maximum daily average 8-hour O_3 concentrations, particularly in response to application of the quadratic rollback approach to simulate just meeting the current

standard, the following four metrics were calculated from the 2006-2008 and 2008-2010 hourly O_3 data for further analysis:

1) Annual 4th Highest Daily Maximum 8-Hour O_3 Concentration ("Current metric"): Details for calculation of this metric are described in Section 1.2.
2) Seasonal Average Daily Maximum 1-Hour O_3 Concentration ("Average 1-hr max"): First, the daily maximum 1-hour concentrations were obtained for each monitoring day. The daily max concentrations were averaged by month of the year and used to construct weighted 3-month average for each consecutive 3-month period (Jan. – Mar., Feb. – Apr., ..., Oct. – Dec.). Periods spanning two calendar years (Nov. – Jan., Dec. – Feb.) were not considered. The 3-month averages were weighted based on the number of monitored days in each month. The annual metric values were the highest 3-month average value in each calendar year.
3) Seasonal Average Daily Maximum 8-Hour O_3 Concentration ("Average 8-hr max"): This metric was similar the average 1-hr max, with daily maximum 8-hour concentrations instead of daily maximum 1-hour concentrations.
4) W126: Details for the calculation of this metric are described in Chapter 4 of the Welfare REA (U.S. EPA, 2012b).

The four annual exposure metrics were calculated using the observed and rollback concentrations at each monitor in the 12-urban areas for the 2006-2008 and 2008-2010 design value periods. The maximum values of each metric observed in each area and year are shown in Table 2-6 for 2006-2008. Note that the maximum value in an area may have occurred at a different monitor each year, thus the 4th highest daily maximum rollback values do not necessarily average to 75 ppb.

Since quadratic rollback has the greatest impact upon the highest concentrations, it is not surprising that the annual 4th highest daily maximum 8-hour concentrations are impacted more by rollback than the 3-month average metrics. The W126 metric is a weighted average ozone value with more weight given to higher ozone days. Therefore, it is not surprising that the quadratic rollback appears to have an even greater impact on the W126 metric than on the current NAAQS metric. The current metric values in Table 2-6 are reduced by 8% to 39%, while the W126 metric values are reduced by 26% to 65%. This occurs because reductions in individual hourly concentrations tend to have a compounding effect on cumulative exposure metrics such as W126.

Table 2-6 Maximum Values of Current and Alternative O_3 Exposure Metrics in the Urban Case Study Areas, 2006-2008

Urban Area	Year	Current Metric (ppb)		Seasonal Average 1-hr Max (ppb)		Seasonal Average 8-hr Max (ppb)		W126 (ppm-hr)	
		Observed	Rollback	Observed	Rollback	Observed	Rollback	Observed	Rollback
Atlanta	2006	99	77	75.1	62.1	65.7	55.3	30.1	14.6
	2007	102	79	74.1	61.0	62.6	52.8	26.1	13.3
	2008	89	71	68.4	57.5	59.1	50.7	20.7	9.5
Baltimore	2006	95	77	72.2	61.6	62.7	54.4	25.4	14.0
	2007	92	75	70.5	60.3	61.8	53.6	24.9	13.7
	2008	89	74	71.3	61.0	61.7	53.4	20.5	10.6
Boston	2006	85	77	58.1	54.1	53.3	49.5	13.4	9.7
	2007	89	81	58.6	54.4	52.5	48.8	15.6	11.3
	2008	81	74	59.3	55.2	54.5	50.8	12.9	9.0
Cleveland	2006	83	73	64.7	58.9	58.7	53.7	20.0	12.8
	2007	92	81	66.8	60.8	60.9	55.7	22.2	14.8
	2008	83	74	60.1	55.0	54.4	50.0	14.7	9.2
Denver	2006	90	78	77.3	68.0	69.1	61.4	35.3	21.6
	2007	90	78	77.5	68.2	68.4	61.0	34.0	21.0
	2008	80	70	71.6	63.7	64.7	58.0	27.4	15.8
Detroit	2006	78	72	58.1	54.2	52.3	49.0	12.8	9.0
	2007	93	84	59.6	55.5	54.3	50.8	15.9	11.7
	2008	76	70	55.2	51.7	50.2	47.2	10.2	7.1
Houston	2006	106	85	65.0	56.2	55.9	49.1	17.7	9.9
	2007	90	75	57.4	50.3	50.0	44.4	11.6	6.5
	2008	83	70	60.7	52.7	49.8	44.5	11.8	6.6
Los Angeles	2006	125	76	98.8	67.5	83.5	60.1	55.6	19.9
	2007	126	77	100.7	68.3	87.3	62.0	62.7	21.8
	2008	120	76	107.0	71.1	90.6	63.9	67.3	24.0
New York	2006	96	80	66.5	57.8	59.6	52.3	23.6	13.4
	2007	97	80	64.9	56.6	58.5	51.4	21.2	11.9
	2008	90	75	67.1	58.6	58.8	51.9	20.6	11.6
Philadelphia	2006	92	75	67.7	57.7	59.7	51.7	23.6	12.1
	2007	102	80	66.5	56.9	58.9	50.9	21.2	10.8
	2008	89	73	68.5	58.5	60.1	52.1	22.0	11.2
Sacramento	2006	105	77	82.7	64.8	72.8	58.5	42.4	18.7
	2007	93	71	72.6	58.8	64.7	53.4	29.5	11.6
	2008	112	81	85.5	65.7	72.4	58.1	40.2	19.0
Saint Louis	2006	92	80	71.5	63.9	61.9	56.0	25.4	16.9
	2007	94	82	67.1	60.4	60.0	54.4	23.4	15.6
	2008	76	68	58.0	52.8	51.7	47.4	10.6	6.5

2.3.2 Evaluation of Quadratic Rollback Applied Nationally

Quadratic rollback was applied to national air quality data from the 2006-2008 period, using the method described in Section 2.2.3, for the Welfare REA to create a national-scale fused

surface of W126 concentrations when simulating just meeting the current standard of 0.075 ppb (U.S. EPA, 2012b, Chapter 4). There were 145 areas[5] with at least one violating monitor in 2006-2008. Figure 2-8a and 2-8b show maps of the observed and rollback 2006-2008 O_3 design values, respectively.

Next, the four metrics described in section 2.3.1.4 (current metric, average 1-hr max, average 8-hr max, W126) were calculated using the national observed and rollback data in 2006-2008. Monitors outside of the violating areas defined by the national rollback procedure were included in the analysis. For these monitors, the observed data were used to represent both the observed and rollback scenarios.

Figure 2.9 shows box-and-whisker plots comparing the observed and rollback values for each of these metrics in the 2006-2008 period. The current metric values appear to be more strongly affected by rollback than the average 1-hr max and average 8-hr max metric values. The current metric values tend to be higher and have a larger variance than the seasonal average metrics. The average 1-hr max values are higher than the average 8-hr max values, with similar variance. The W126 metric appears to be the most greatly affected by quadratic rollback, with the right tail values of the observed distribution reduced by over 50%. The distributions of all four metrics appear to decrease in magnitude slightly from 2006 to 2008, with little change in variance from year to year.

Next, the metric values were mapped to show spatial variability. Maps of the observed and rollback metric values for 2007 are shown in Figures 2-10a, b, c, and d. The highest observed values occur in Southern California for all four metrics. The current metric tends to have much higher observed values near large urban areas, while the rollback values appear to be much more spatially uniform. The observed average 1-hr max and average 8-hr max values appear to be much more spatially uniform than the current metric. There was much less distinction between urban and rural areas, and less distinction between the Eastern and Western U.S. After quadratic rollback was applied, the highest values of both metrics appeared mostly in mountainous areas, especially for the average 8-hr max metric. The W126 metric also tended to have higher values in the Western U.S. relative to the Eastern U.S., probably due to less meteorological variability during the summer months. The distinction between urban and rural areas also appeared in the observed W126 metric values, although it was not as strong as the distinction seen in the current metric values. For both the current metric and the W126 metric, the distinction between urban and rural areas was not evident in the rollback values.

[5] Areas definitions are described Section 2.2.3.

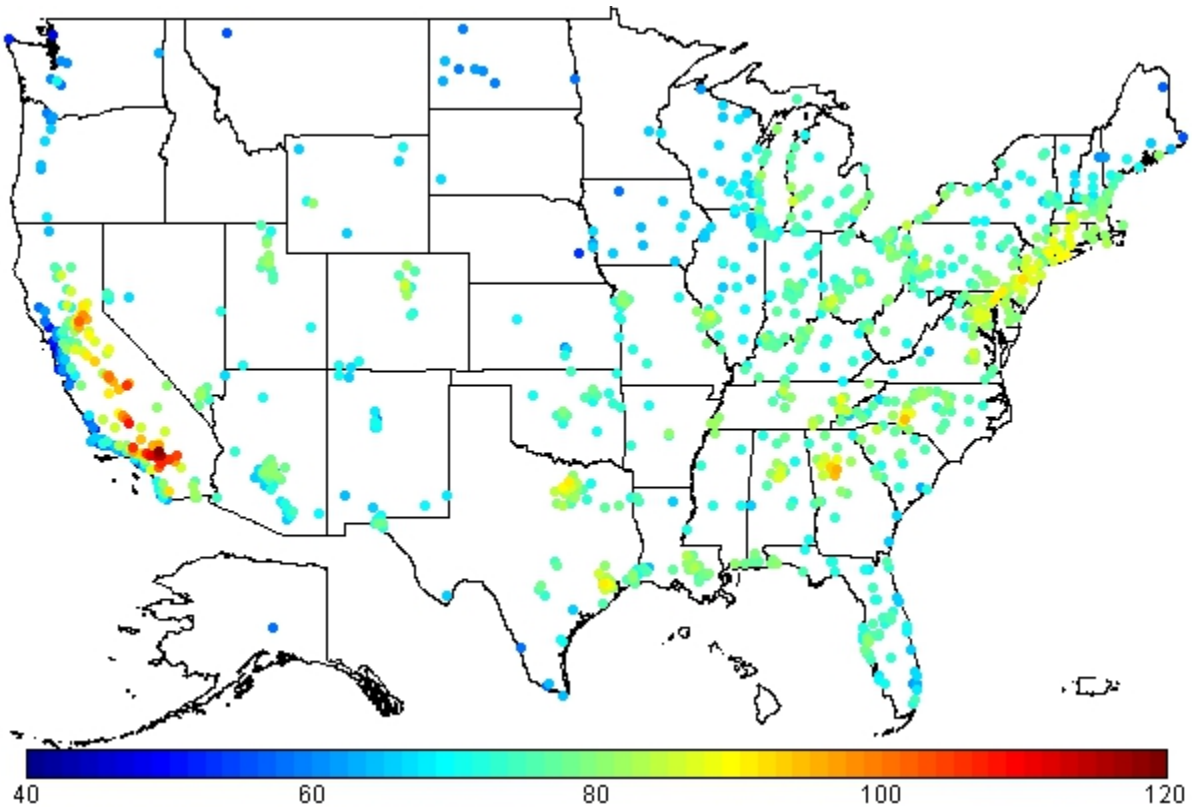

Figure 2-8a Observed 2006-2008 O_3 Design Values

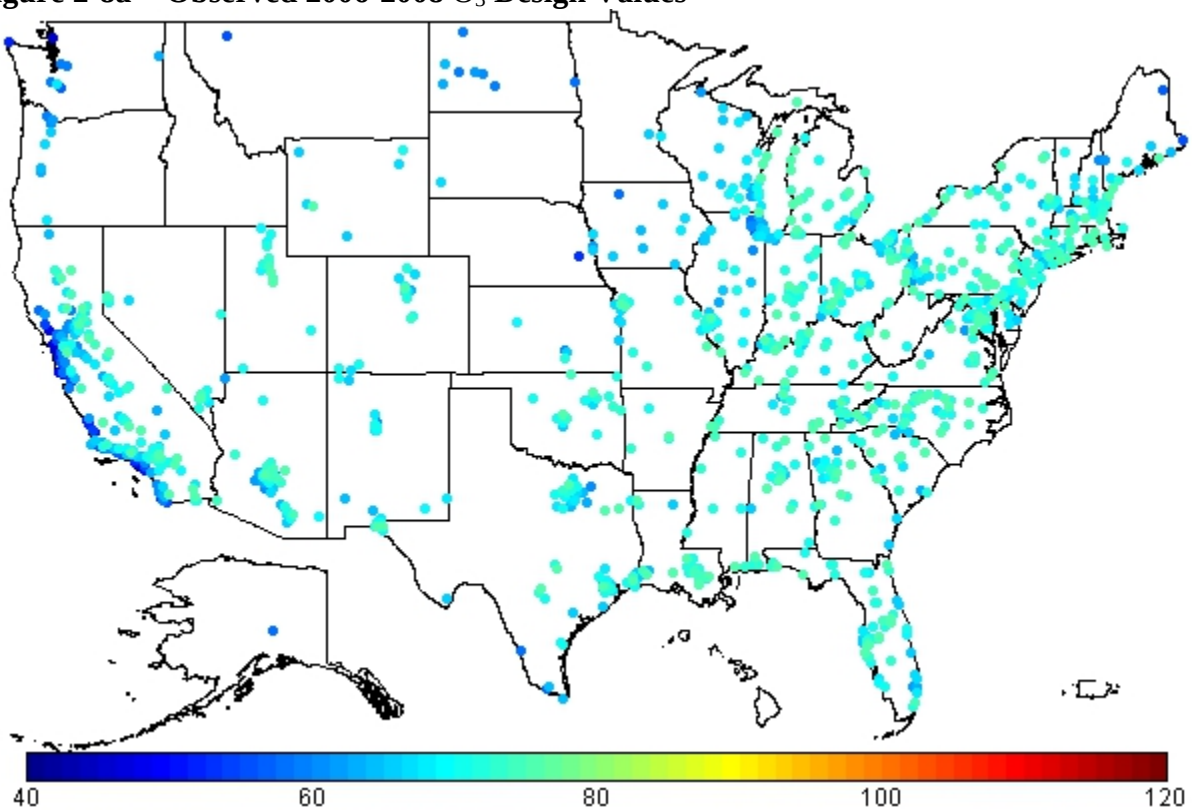

Figure 2-8b Rollback 2006-2008 O_3 Design Values

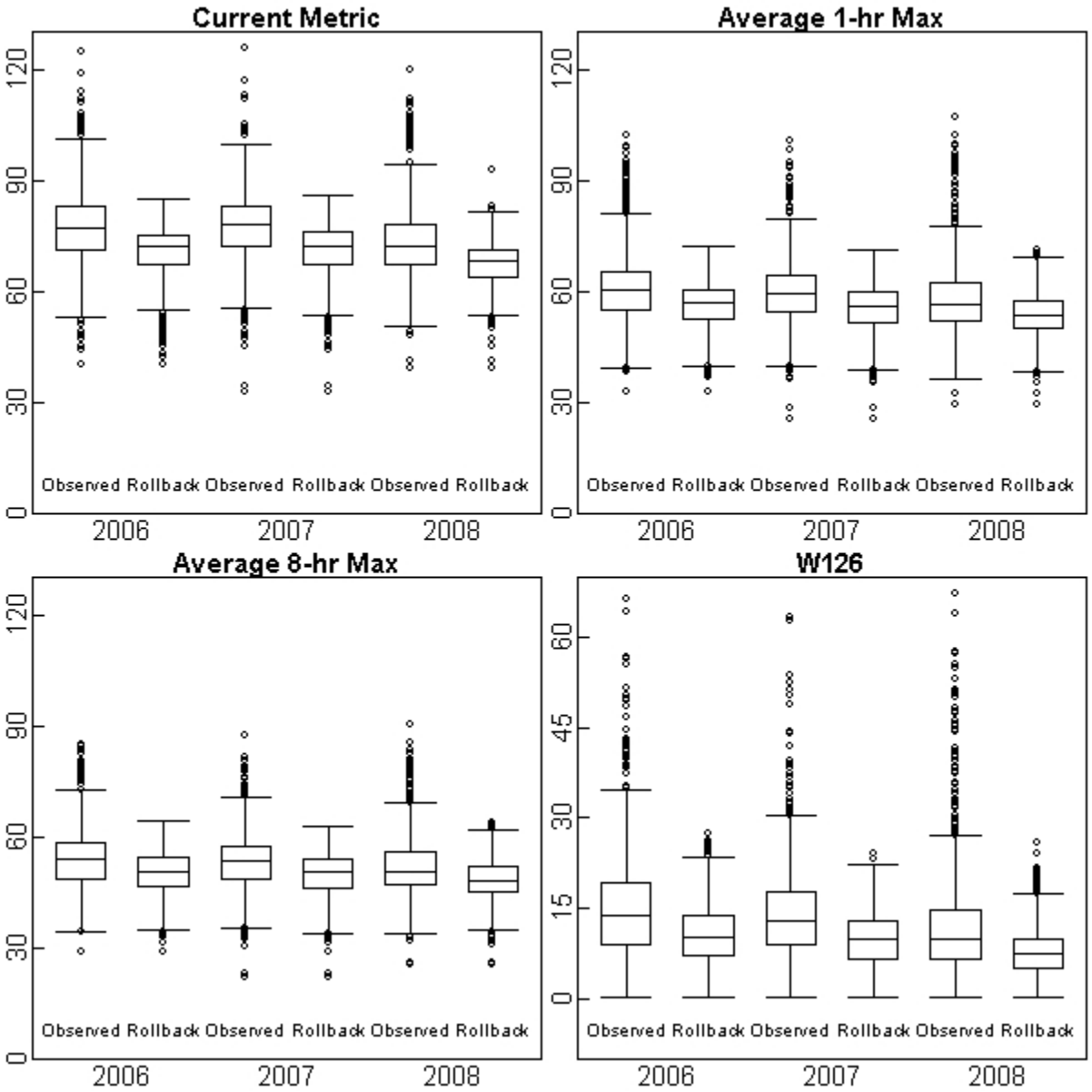

Figure 2-9 Boxplots of Observed and Rollback Current Metric, Average 1-hr Max, Average 8-hr Max, and W126 Values, 2006-2008

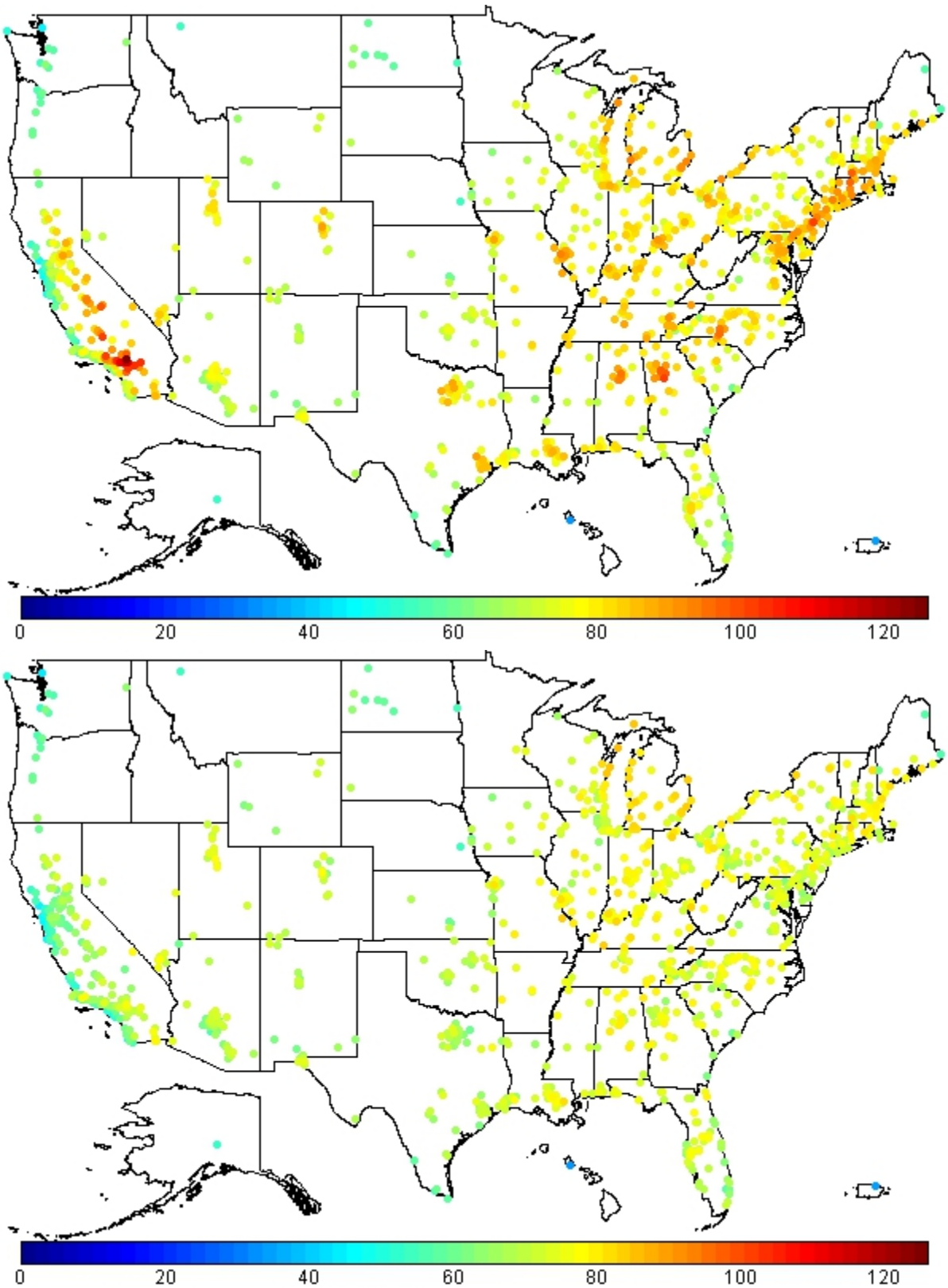

Figure 2-10a Map of Observed (top) and Rollback (bottom) 4th Highest Maximum Daily 8-hr Average Ozone Values, 2007

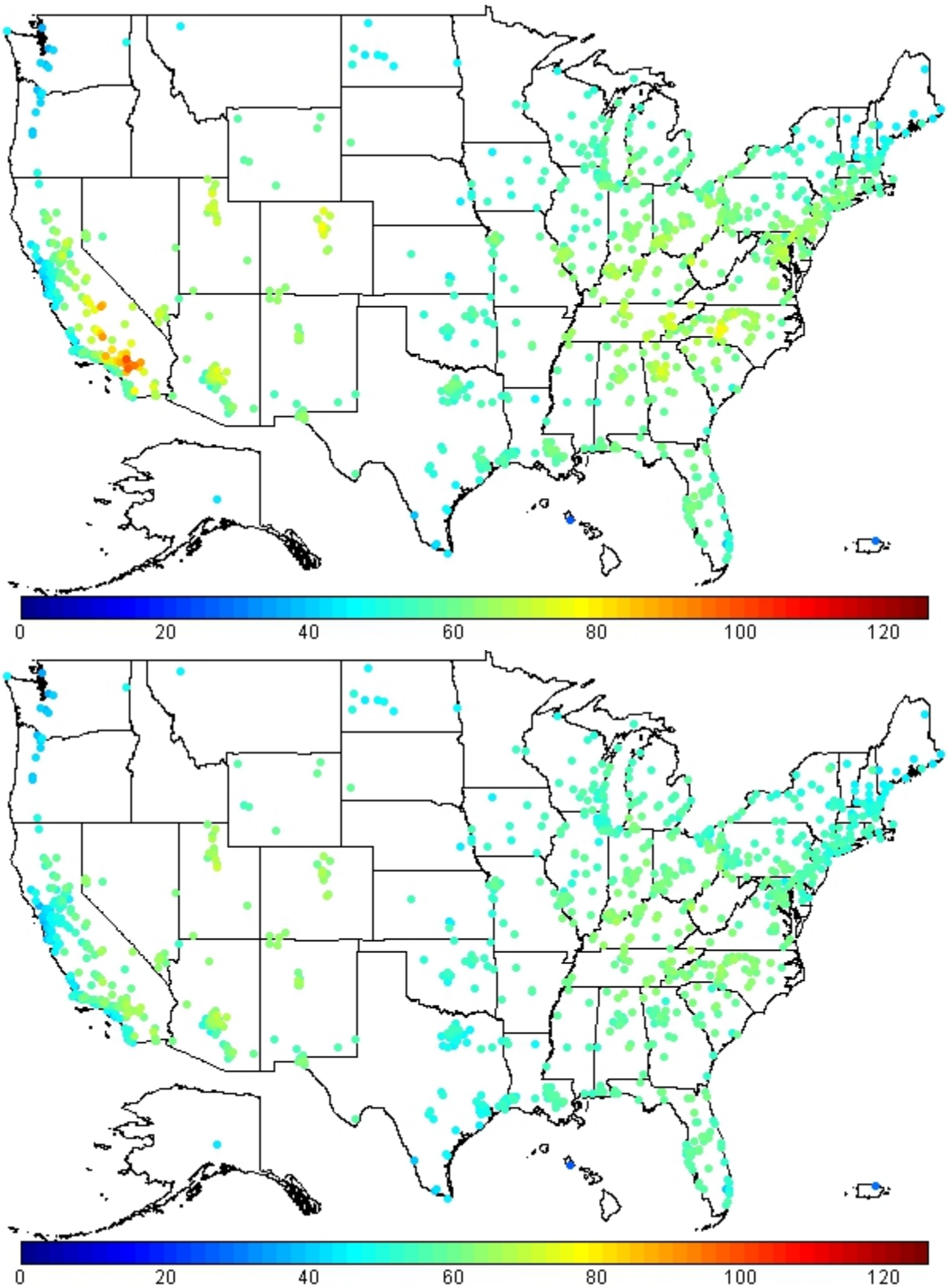

Figure 2-10b Map of Observed (top) and Rollback (bottom) Average 1-hr Max Values, 2007

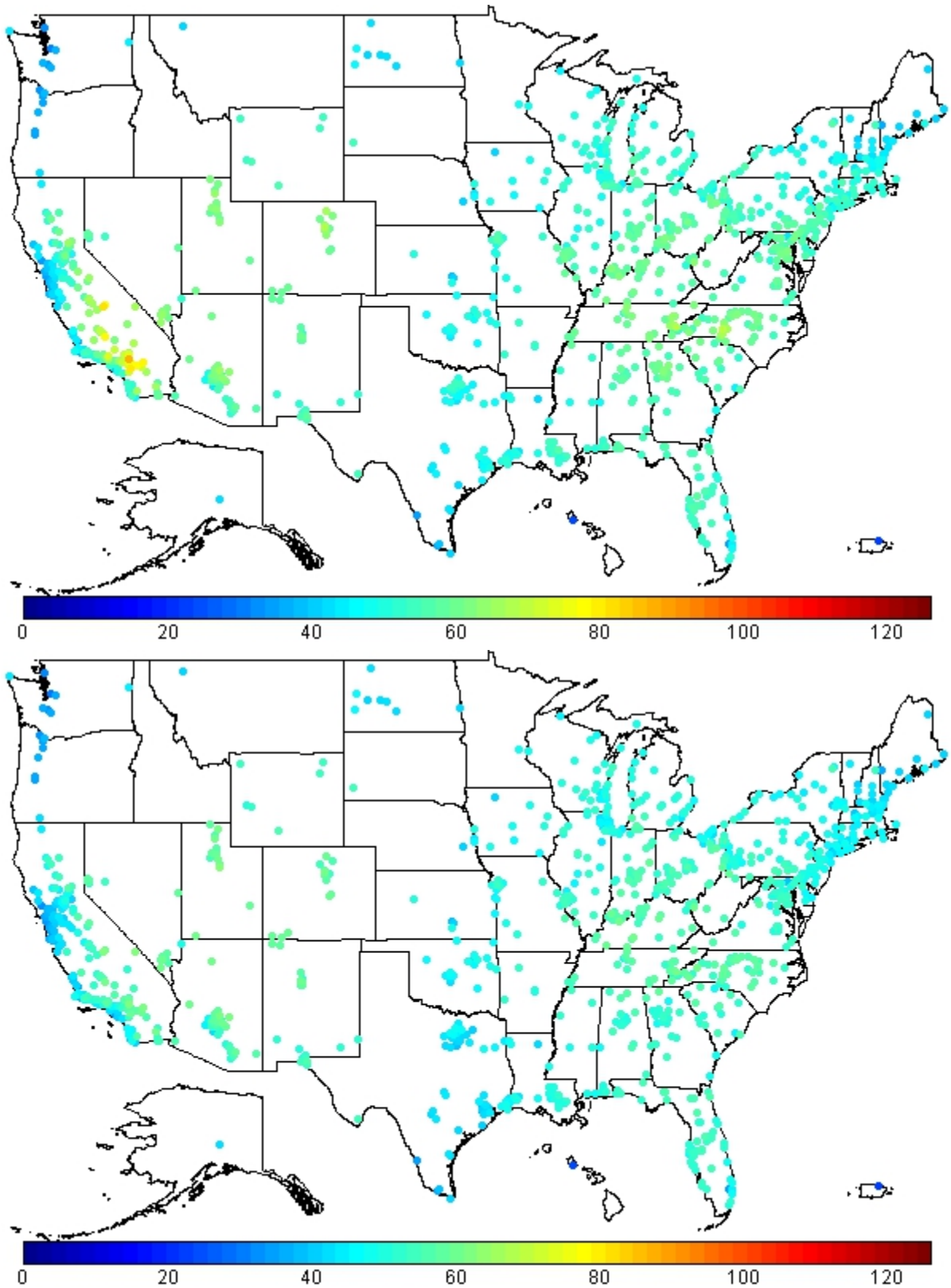

Figure 2-10c Map of Observed (top) and Rollback (bottom) Average 8-hr Max Values, 2007

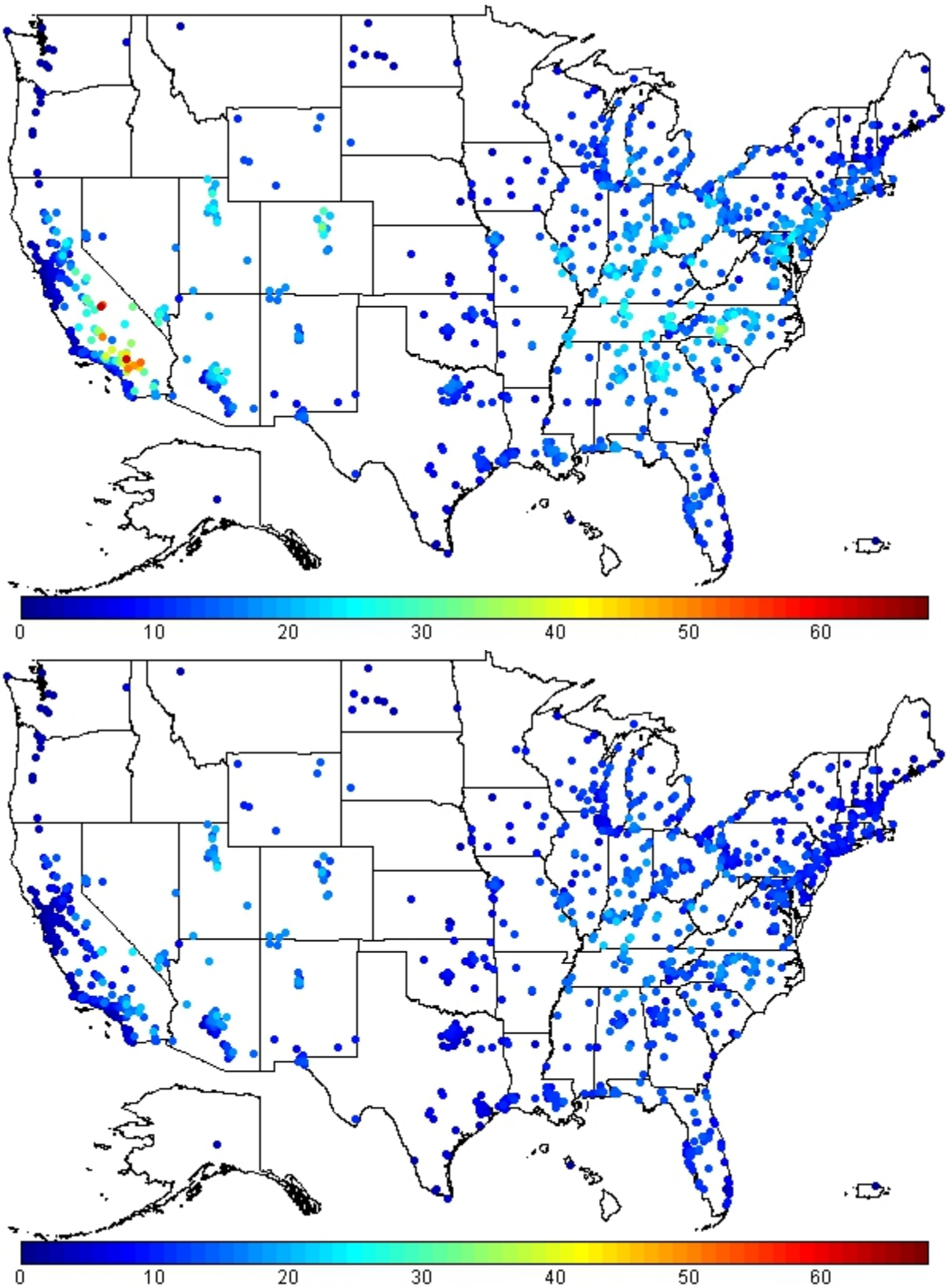

Figure 2-10d Map of Observed (top) and Rollback (bottom) W126 Values, 2007

Next, the observed values of the four O_3 exposure metrics were plotted against their respective rollback values to visualize the effect of quadratic rollback on each metric. The resulting scatter plots are shown in Figure 2-11. These figures provide a visual representation of the same conclusion that was reached in the previous section for the urban case study areas: quadratic rollback has the greatest effect on W126, followed by the current metric, while the two seasonal average metrics are affected to a much lesser extent.

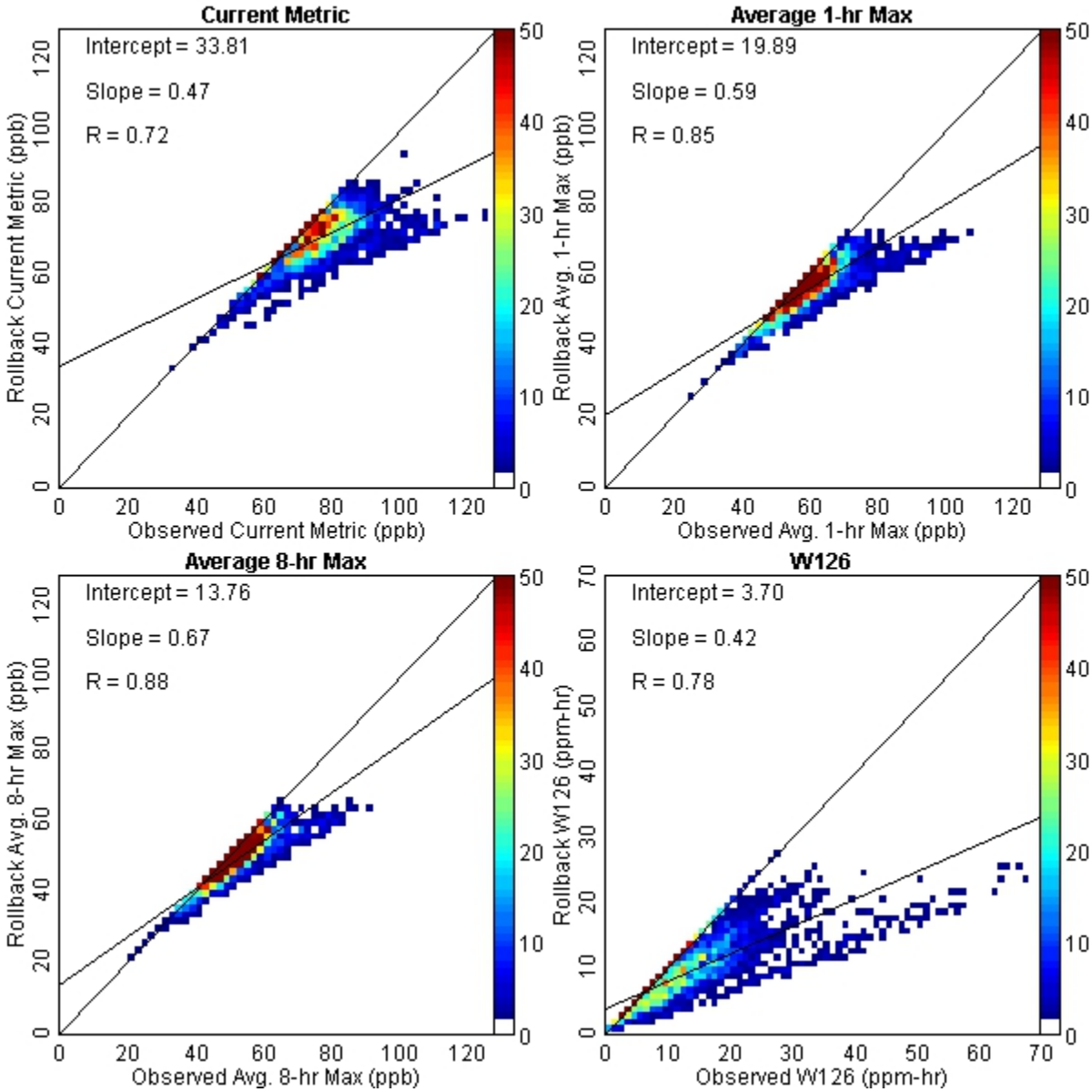

Figure 2-11 Observed vs. Rollback Values for O_3 Exposure Metrics, 2006-2008

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Appendix A: Ozone Design Values (ppm) in Locations where U.S. Epidemiologic Studies have been Conducted

Table A-1. Medina-Ramon et al. (2006)

city_name	census_area_name	dv1986_1988	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992	dv1991_1993
Honolulu, HI	Honolulu, HI	0.026	0.020	0.018			
Colorado Springs, CO	Colorado Springs, CO	0.061	0.063		0.066	0.063	0.062
Spokane, WA	Spokane, WA						
Palm Beach, FL	Palm Beach County, FL	0.071	0.071	0.070	0.064	0.061	0.067
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.077	0.080	0.079	0.068	0.070	0.069
Provo/Orem, UT	Provo-Orem, UT	0.079	0.076				
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.079	0.078	0.086	0.077
Denver, CO	Denver-Aurora-Broomfield, CO	0.088	0.087	0.086	0.080	0.074	0.071
Salt Lake City, UT	Salt Lake City, UT	0.084	0.085	0.082	0.078	0.075	0.076
Steubenville, OH	Weirton-Steubenville, WV-OH	0.086	0.090	0.088	0.085	0.083	0.085
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.087	0.089	0.087	0.084	0.082	0.081
Columbus, OH	Columbus, OH	0.093	0.097	0.095	0.089	0.092	0.090
Detroit, MI	Detroit-Warren-Livonia, MI	0.100	0.099	0.099	0.096	0.091	0.089
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.101	0.103	0.099	0.090	0.091	0.091
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.104	0.105	0.104	0.093	0.090	0.092

Pittsburgh, PA	Pittsburgh, PA	0.104	0.107	0.098	0.092	0.088	0.095
St Louis, MO	St. Louis, MO-IL	0.114	0.111	0.102	0.098	0.098	0.091
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.106	0.104	0.104	0.096	0.096	0.095
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.116	0.115	0.107	0.100	0.100	0.101
Jersey City, NJ	Hudson County, NJ	0.117	0.118	0.115	0.107	0.104	0.103
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.114	0.114	0.107	0.105	0.105	0.110
New Haven, CT	New Haven-Milford, CT	0.112	0.113	0.116	0.116	0.113	0.108
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.132	0.123	0.120	0.113	0.107	0.106
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.121	0.125	0.129	0.125	0.118	0.112
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.129	0.129	0.128	0.122	0.116	0.108
Houston, TX	Houston-Sugar Land-Baytown, TX	0.118	0.117	0.119	0.119	0.116	0.104
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.205	0.192	0.186	0.179	0.177	0.177

Table A-1. Continued

city_name	**census_area name**	**dv1992_1994**	**dv1993_1995**	**dv1994_1996**	**dv1995_1997**	**dv1996_1998**	**dv1997_1999**
Honolulu, HI	Honolulu, HI					0.045	0.048

Colorado Springs, CO	Colorado Springs, CO	0.061	0.061	0.056			0.062
Spokane, WA	Spokane, WA		0.064	0.066	0.066	0.068	0.067
Palm Beach, FL	Palm Beach County, FL	0.068	0.073	0.069	0.067	0.071	0.076
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.070	0.072	0.074	0.071	0.070	0.074
Provo/Orem, UT	Provo-Orem, UT	0.069	0.068	0.071	0.076	0.082	0.082
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.074	0.071	0.076	0.078	0.081	0.074
Denver, CO	Denver-Aurora-Broomfield, CO	0.074	0.081	0.081	0.079	0.084	0.083
Salt Lake City, UT	Salt Lake City, UT	0.079	0.082	0.089	0.085	0.088	0.082
Steubenville, OH	Weirton-Steubenville, WV-OH	0.080	0.087	0.086	0.085	0.084	0.087
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.082	0.087	0.093	0.090	0.089	0.086
Columbus, OH	Columbus, OH	0.086	0.090	0.092	0.092	0.093	0.097
Detroit, MI	Detroit-Warren-Livonia, MI	0.088	0.093	0.094	0.092	0.093	0.095
Youngstown, OH	Youngstown-Warren-	0.089	0.091	0.092	0.093	0.096	0.096

	Boardman, OH-PA						
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.093	0.098	0.100	0.099	0.098	0.099
Pittsburgh, PA	Pittsburgh, PA	0.096	0.105	0.103	0.105	0.099	0.101
St Louis, MO	St. Louis, MO-IL	0.091	0.098	0.104	0.100	0.095	0.095
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.096	0.099	0.099	0.099	0.101	0.102
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.096	0.098	0.094	0.100	0.101	0.106
Jersey City, NJ	Hudson County, NJ	0.096	0.100	0.095	0.098	0.093	0.100
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.104	0.106	0.106	0.099	0.103	0.103
New Haven, CT	New Haven-Milford, CT	0.097	0.105	0.101	0.107	0.100	0.103
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.099	0.104	0.101	0.110	0.107	0.110
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.109	0.108	0.104	0.099	0.102	0.099

New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.100	0.106	0.104	0.108	0.104	0.107
Houston, TX	Houston-Sugar Land-Baytown, TX	0.110	0.114	0.116	0.117	0.116	0.118
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.168	0.156	0.145	0.135	0.133	0.118

Table A-2. Zanobetti and Schwartz (2006)

city_name	**census_area_name**	**dv1995_1997**	**dv1996_1998**	**dv1997_1999**
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.095	0.091	0.093

Table A-3. Ito et al. (2007)

city_name	**census_area_name**	**dv1999_2001**	**dv2000_2002**
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.109	0.115

Table A-4. Tolbert et al. (2007); Strickland et al. (2010); Darrow et al. (2011)

city_name	**census_area_name**	**dv1993_1995**	**dv1994_1996**	**dv1995_1997**	**dv1996_1998**	**dv1997_1999**	**dv1998_2000**	**dv1999_2001**	**dv2000_2002**	**dv2001_2003**	**dv2002_2004**
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.109	0.105	0.110	0.113	0.118	0.121	0.107	0.099	0.091	0.093

Table A-5. Lin et al. (2008)

city_name	**census_area_name**	**dv1991_1993**	**dv1992_1994**	**dv1993_1995**	**dv1994_1996**	**dv1995_1997**	**dv1996_1998**	**dv1997_1999**	**dv1998_2000**	**dv1999_2001**

Nick's Lake, NY	Herkimer County, NY		0.070	0.070	0.069	0.070	0.068	0.072	0.070	0.072
Camden, NY	Oneida County, NY	0.079	0.074	0.072	0.071	0.072	0.071	0.076	0.073	0.076
Schenectady, NY	Schenectady County, NY	0.082	0.079	0.077	0.072	0.074	0.071	0.075	0.071	0.075
Piseco Lake, NY	Hamilton County, NY		0.073	0.074	0.073	0.075	0.075	0.079	0.077	0.077
Elmira, NY	Elmira, NY	0.081	0.076	0.076	0.074	0.073	0.075	0.079	0.079	0.079
Stillwater, NY	Saratoga County, NY	0.083	0.079	0.076	0.073	0.076	0.076	0.084	0.080	0.084
Syracuse, NY	Syracuse, NY	0.087	0.081	0.082	0.079	0.079	0.077	0.082	0.080	0.081
Amherst, NY	Erie County, NY	0.080	0.075	0.077	0.078	0.076	0.080	0.085	0.089	0.092
Loudonville, NY	Albany County, NY	0.085	0.085	0.083	0.084	0.081	0.080	0.080	0.077	0.080
Rochester, NY	Rochester, NY	0.088	0.080	0.085	0.081	0.083	0.080	0.086	0.081	0.081
Williamson, NY	Wayne County, NY	0.088	0.080	0.085	0.081	0.083	0.080	0.086	0.081	0.081
Belleayre, NY	Ulster County, NY	0.091	0.086	0.084	0.080	0.082	0.081	0.083	0.080	0.081
Whiteface, NY	Essex County, NY	0.093	0.086	0.086	0.085	0.086	0.081	0.081	0.081	0.083
Dunkirk, NY	Chautauqua County, NY	0.080	0.081	0.083	0.083	0.085	0.087	0.089	0.088	0.089
Westfield, NY	Chautauqua County, NY	0.080	0.081	0.083	0.083	0.085	0.087	0.089	0.088	0.089
Middleport, NY	Niagara County, NY	0.086	0.083	0.087	0.086	0.085	0.083	0.086	0.085	0.087
Perch River, NY	Jefferson County, NY	0.090	0.083	0.088	0.085	0.088	0.085	0.090	0.083	0.087

Millbrook, NY	Dutchess County, NY	0.097	0.092	0.093	0.089	0.090	0.089	0.090	0.087	0.087
Mt. Ninham, NY	Putnam County, NY				0.090	0.090	0.091	0.094	0.089	0.089
White Plains, NY	Westchester County, NY	0.096	0.090	0.094	0.093	0.094	0.091	0.098	0.092	0.092
Babylon, NY	Suffolk County, NY	0.099	0.093	0.099	0.097	0.102	0.097	0.098	0.094	0.091
Riverhead, NY	Suffolk County, NY	0.099	0.093	0.099	0.097	0.102	0.097	0.098	0.094	0.091
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.108	0.100	0.106	0.104	0.108	0.104	0.107	0.107	0.109
Georgetown, NY	Madison County, NY	0.087	0.081	0.081	0.077	0.077	0.077	0.079	0.078	0.078
Grafton, NY	Rensselaer County, NY									
Central Valley, NY	Orange County, NY					0.091	0.089	0.090	0.086	0.087

Table A-6. Katsouyanni et al. (2009), Morbidity

city_name	**census_area_name**	**dv1987_1989**	**dv1988_1990**	**dv1989_1991**	**dv1990_1992**	**dv1991_1993**	**dv1992_1994**	**dv1993_1995**	**dv1994_1996**
Colorado Springs, CO	Colorado Springs, CO	0.063		0.066	0.063	0.062	0.061	0.061	0.056
Spokane, WA	Spokane, WA							0.064	0.066
Provo/Orem, UT	Provo-Orem, UT	0.076					0.069	0.068	0.071
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.080	0.079	0.068	0.070	0.069	0.070	0.072	0.074
Boulder, CO	Boulder, CO	0.082	0.078	0.076	0.073	0.073	0.071	0.072	0.071
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074	0.071	0.076
Birmingham,	Birmingham-Hoover, AL	0.094	0.093	0.084	0.088	0.089	0.092	0.096	0.096

AL									
Canton, OH	Canton-Massillon, OH	0.103	0.101	0.091	0.089	0.089	0.088	0.091	0.089
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.103	0.099	0.090	0.091	0.091	0.089	0.091	0.092
Detroit, MI	Detroit-Warren-Livonia, MI	0.099	0.099	0.096	0.091	0.089	0.088	0.093	0.094
Pittsburgh, PA	Pittsburgh, PA	0.107	0.098	0.092	0.088	0.095	0.096	0.105	0.103
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.104	0.104	0.096	0.096	0.095	0.096	0.099	0.099
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.114	0.114	0.104	0.099	0.100	0.093	0.099	0.097
New Haven, CT	New Haven-Milford, CT	0.113	0.116	0.116	0.113	0.108	0.097	0.105	0.101

Table A-7. Mar and Koenig (2009)

city_name	census_area_name	dv1998_2000	dv1999_2001	dv2000_2002
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.075	0.069	0.068

Table A-8. Silverman and Ito (2010)

city_name	census_area_name	dv1999_2001	dv2000_2002	dv2001_2003	dv2002_2004	dv2003_2005	dv2004_2006
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.109	0.115	0.109	0.102	0.094	0.093

Table A-9. Sinclair et al. (2010)

city_name	census_area_name	dv1998_2000	dv1999_2001	dv2000_2002
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.121	0.107	0.099

Table A-10. Bell et al. (2004)

city_name	census_area_name	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992	dv1991_1993	dv1992_1994
Honolulu, HI	Honolulu, HI	0.020	0.018				
Lincoln, NE	Lincoln, NE	0.058	0.061	0.058	0.061	0.058	0.059
Colorado Springs, CO	Colorado Springs, CO	0.063		0.066	0.063	0.062	0.061
Des Moines, IA	Des Moines-West Des Moines, IA						
Cedar Rapids, IA	Cedar Rapids, IA	0.076	0.070		0.063	0.064	0.064
Spokane, WA	Spokane, WA						
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.077	0.078	0.072	0.071	0.065	0.062
Albuquerque, NM	Albuquerque, NM	0.073	0.073	0.071	0.071	0.069	0.070
Wichita, KS	Wichita, KS	0.080	0.081	0.075	0.073	0.067	0.065
Tucson, AZ	Tucson, AZ	0.068	0.074	0.069	0.072	0.077	0.078
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.077	0.085	0.082	0.091	0.076	0.078
Mobile, AL	Mobile, AL	0.078	0.080	0.062	0.064	0.070	0.074
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074
Jackson, MS	Jackson, MS	0.075	0.079	0.076	0.076	0.074	0.075

Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.083	0.079	0.075	0.073	0.076	0.080
Madison, WI	Madison, WI	0.091	0.079	0.081	0.079	0.073	0.072
Las Vegas, NV	Las Vegas-Paradise, NV	0.081	0.078	0.078	0.076	0.075	0.079
Columbus, GA	Columbus, GA-AL	0.079	0.075	0.071	0.073		0.077
Denver, CO	Denver-Aurora-Broomfield, CO	0.087	0.086	0.080	0.074	0.071	0.074
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.085	0.082	0.079	0.080	0.078	0.077
Orlando, FL	Orlando-Kissimmee, FL	0.082	0.082	0.080	0.079	0.078	0.082
Corpus Christi, TX	Corpus Christi, TX	0.089	0.085	0.079	0.077	0.078	0.079
El Paso, TX	El Paso, TX	0.088	0.083	0.080	0.079	0.078	0.081
Salt Lake City, UT	Salt Lake City, UT	0.085	0.082	0.078	0.075	0.076	0.079
Jacksonville, FL	Jacksonville, FL	0.086	0.084	0.081	0.079	0.079	0.081
Syracuse, NY	Syracuse, NY	0.092	0.088	0.083	0.083	0.087	0.081
Lafayette, LA	Lafayette, LA	0.085	0.083	0.077			
St. Petersburg, FL	Tampa-St. Petersburg-Clearwater, FL	0.086	0.085	0.079	0.081	0.080	0.080
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.086	0.085	0.079	0.081	0.080	0.080

Huntsville, AL	Huntsville, AL	0.087	0.083	0.077	0.082	0.085	0.083
Austin, TX	Austin-Round Rock, TX	0.084	0.086	0.084	0.084	0.081	0.082
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.090	0.085	0.077	0.080	0.081	0.086
San Antonio, TX	San Antonio, TX	0.085	0.085	0.082	0.079	0.079	0.082
Oklahoma City, OK	Oklahoma City, OK	0.087	0.087	0.086	0.084	0.081	0.081
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.097	0.088	0.082	0.083	0.080	0.080
Lake Charles, LA	Lake Charles, LA	0.093	0.090	0.087	0.086	0.079	0.079
Shreveport, LA	Shreveport-Bossier City, LA	0.087	0.088	0.084	0.086	0.085	0.086
Lexington, KY	Lexington-Fayette, KY	0.099	0.096	0.085	0.078	0.077	0.079
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.084	0.082	0.081	0.082
Rochester, NY	Rochester, NY	0.099	0.095	0.092	0.090	0.088	0.080
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.077	0.082	0.083	0.091	0.088	0.086
Kansas City, KS	Kansas City, MO-KS	0.088	0.086	0.082	0.083	0.082	0.082
Kansas City, MO	Kansas City, MO-KS	0.088	0.086	0.082	0.083	0.082	0.082
Stockton, CA	Stockton, CA	0.093	0.090	0.087	0.088	0.088	0.087
Tulsa, OK	Tulsa, OK	0.089	0.090	0.087	0.087	0.082	0.083

Johnstown, PA	Johnstown, PA	0.097	0.093	0.086	0.083	0.084	0.080
Buffalo, NY	Buffalo-Niagara Falls, NY	0.100	0.095	0.089	0.088	0.086	0.083
Toledo, OH	Toledo, OH	0.102	0.099	0.086	0.082	0.085	0.086
Ft. Wayne, IN	Fort Wayne, IN	0.094	0.092	0.087	0.085	0.085	0.088
Dayton, OH	Dayton, OH	0.096	0.092	0.086	0.082	0.084	0.086
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.105	0.103	0.096	0.090	0.085	0.081
Newark, NJ	Essex County, NJ	0.105	0.098	0.088	0.086	0.084	0.081
Worcester, MA	Worcester, MA	0.091	0.091	0.089	0.091		0.095
Raleigh, NC	Raleigh-Cary, NC	0.099	0.093	0.089	0.086	0.087	0.086
Columbus, OH	Columbus, OH	0.097	0.095	0.089	0.092	0.090	0.086
Memphis, TN	Memphis, TN-MS-AR	0.095	0.095	0.089	0.091	0.090	0.090
Detroit, MI	Detroit-Warren-Livonia, MI	0.099	0.099	0.096	0.091	0.089	0.088
Birmingham, AL	Birmingham-Hoover, AL	0.094	0.093	0.084	0.088	0.089	0.092
Knoxville, TN	Knoxville, TN	0.093	0.094	0.086	0.089	0.088	0.089
Indianapolis, IN	Indianapolis-Carmel, IN	0.098	0.095	0.091	0.089	0.087	0.090
Arlington, VA	Arlington County, VA	0.106	0.101	0.093	0.092	0.096	0.091
Baton Rouge, LA	Baton Rouge, LA	0.098	0.101	0.099	0.096	0.090	0.087
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.105	0.101	0.098	0.092	0.096	0.093
Modesto, CA	Modesto, CA	0.102	0.099	0.095	0.092	0.086	0.093
Akron, OH	Akron, OH	0.112	0.109	0.099	0.093	0.094	0.088

Louisville, KY	Louisville/Jefferson County, KY-IN	0.098	0.099	0.096	0.092	0.094	0.094
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.117	0.105	0.101	0.095	0.090	0.084
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.106	0.107	0.102	0.095	0.091	0.091
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.105	0.104	0.093	0.090	0.092	0.093
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.104	0.101	0.092	0.091	0.091	0.092
Coventry, RI	Kent County, RI	0.108	0.108	0.107	0.105	0.099	0.088
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.108	0.108	0.107	0.105	0.099	0.092
St Louis, MO	St. Louis, MO-IL	0.111	0.102	0.098	0.098	0.091	0.091
Pittsburgh, PA	Pittsburgh, PA	0.107	0.098	0.092	0.088	0.095	0.096
Muskegon, MI	Muskegon-Norton Shores, MI	0.117	0.113	0.109		0.093	0.086
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.104	0.104	0.096	0.096	0.095	0.096
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.114	0.114	0.104	0.099	0.100	0.093

Biddeford, ME	Portland-South Portland-Biddeford, ME	0.117	0.115	0.109	0.105	0.102	0.095
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.100	0.105	0.105	0.099	0.095	0.096
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.115	0.107	0.100	0.100	0.101	0.096
Jersey City, NJ	Hudson County, NJ	0.118	0.115	0.107	0.104	0.103	0.096
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.114	0.107	0.105	0.105	0.110	0.104
Baltimore, MD	Baltimore-Towson, MD	0.125	0.115	0.104	0.106	0.107	0.103
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.123	0.120	0.113	0.107	0.106	0.099
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.113	0.107	0.104	0.105	0.101	0.101
Anaheim, CA	Orange County, CA	0.141	0.138	0.127	0.120	0.114	0.117
Fresno, CA	Fresno, CA	0.115	0.110	0.108	0.108	0.111	0.107
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.125	0.129	0.125	0.118	0.112	0.109

New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.129	0.128	0.122	0.116	0.108	0.100
Bakersfield, CA	Bakersfield, CA	0.116	0.112	0.118	0.115	0.112	0.111
Houston, TX	Houston-Sugar Land-Baytown, TX	0.117	0.119	0.119	0.116	0.104	0.110
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.192	0.186	0.179	0.177	0.177	0.168
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.188	0.185	0.182	0.180	0.177	0.171
San Bernadino, CA	San Bernardino County, CA	0.188	0.185	0.182	0.180	0.177	0.171

Table A-10. Continued

city_name	census_area_name	dv1993_1995	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000
Honolulu, HI	Honolulu, HI				0.045	0.048	0.047
Lincoln, NE	Lincoln, NE	0.057	0.058	0.056	0.055	0.055	0.056
Colorado Springs, CO	Colorado Springs, CO	0.061	0.056			0.062	0.065
Des Moines, IA	Des Moines-West Des Moines, IA		0.062	0.066	0.061	0.066	0.071
Cedar Rapids, IA	Cedar Rapids, IA	0.062	0.063	0.062	0.060	0.069	0.072
Spokane, WA	Spokane, WA	0.064	0.066	0.066	0.068	0.067	0.067

Omaha, NE	Omaha-Council Bluffs, NE-IA	0.062	0.067	0.067	0.063	0.072	0.074
Albuquerque, NM	Albuquerque, NM	0.071	0.074	0.069	0.073	0.071	0.075
Wichita, KS	Wichita, KS	0.065	0.072	0.074	0.078	0.080	0.080
Tucson, AZ	Tucson, AZ	0.081	0.079	0.079	0.077	0.075	0.073
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.058	0.083	0.078	0.080	0.062	0.061
Mobile, AL	Mobile, AL	0.075	0.077	0.080	0.086	0.088	0.090
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.078	0.081	0.074	0.075
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.078	0.081	0.074	0.075
Jackson, MS	Jackson, MS	0.076	0.077	0.077	0.080	0.081	0.083
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.080	0.074	0.075	0.077	0.078	0.079
Madison, WI	Madison, WI	0.072	0.080	0.081	0.078	0.080	0.078
Las Vegas, NV	Las Vegas-Paradise, NV	0.079	0.080	0.079	0.080	0.077	0.085
Columbus, GA	Columbus, GA-AL	0.078	0.081	0.083	0.084	0.089	0.093
Denver, CO	Denver-Aurora-Broomfield, CO	0.081	0.081	0.079	0.084	0.083	0.086
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.080	0.080	0.081	0.080	0.082	0.087

Orlando, FL	Orlando-Kissimmee, FL	0.079	0.079	0.078	0.084	0.085	0.085
Corpus Christi, TX	Corpus Christi, TX	0.082	0.083	0.083	0.080	0.081	0.083
El Paso, TX	El Paso, TX	0.084	0.089	0.080	0.082	0.078	0.080
Salt Lake City, UT	Salt Lake City, UT	0.082	0.089	0.085	0.088	0.082	0.088
Jacksonville, FL	Jacksonville, FL	0.080	0.078	0.081	0.088	0.088	0.085
Syracuse, NY	Syracuse, NY	0.082	0.079	0.079	0.077	0.082	0.080
Lafayette, LA	Lafayette, LA		0.085	0.084	0.083	0.082	0.087
St. Petersburg, FL	Tampa-St. Petersburg-Clearwater, FL	0.080	0.081	0.082	0.088	0.090	0.088
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.080	0.081	0.082	0.088	0.090	0.088
Huntsville, AL	Huntsville, AL	0.080	0.078	0.082	0.086	0.090	0.091
Austin, TX	Austin-Round Rock, TX	0.084	0.084	0.081	0.081	0.089	0.089
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.084	0.085	0.083	0.084	0.086	0.091
San Antonio, TX	San Antonio, TX	0.087	0.087	0.087	0.085	0.088	0.086
Oklahoma City, OK	Oklahoma City, OK	0.084	0.085	0.083	0.085	0.086	0.084
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.083	0.088	0.085	0.086	0.082	0.082
Lake Charles, LA	Lake Charles, LA	0.086	0.080	0.085	0.085	0.088	0.088

Shreveport, LA	Shreveport-Bossier City, LA	0.083	0.080	0.082	0.084	0.089	0.092
Lexington, KY	Lexington-Fayette, KY	0.087	0.087	0.085	0.085	0.087	0.085
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.087	0.093	0.090	0.089	0.086	0.087
Rochester, NY	Rochester, NY	0.085	0.081	0.083	0.080	0.086	0.081
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.089	0.090	0.092	0.091	0.088	0.088
Kansas City, KS	Kansas City, MO-KS	0.090	0.092	0.094	0.093	0.091	0.089
Kansas City, MO	Kansas City, MO-KS	0.090	0.092	0.094	0.093	0.091	0.089
Stockton, CA	Stockton, CA	0.086	0.085	0.087	0.087	0.087	0.088
Tulsa, OK	Tulsa, OK	0.088	0.091	0.089	0.087	0.088	0.093
Johnstown, PA	Johnstown, PA	0.085	0.085	0.088	0.091	0.093	0.091
Buffalo, NY	Buffalo-Niagara Falls, NY	0.087	0.086	0.085	0.083	0.086	0.089
Toledo, OH	Toledo, OH	0.090	0.091	0.089	0.089	0.086	0.084
Ft. Wayne, IN	Fort Wayne, IN	0.089	0.093	0.090	0.090	0.088	0.090
Dayton, OH	Dayton, OH	0.092	0.093	0.091	0.093	0.093	0.090
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.086	0.089	0.088	0.085	0.087	0.084
Newark, NJ	Essex County, NJ	0.088	0.088	0.092	0.088	0.093	
Worcester, MA	Worcester, MA	0.095	0.089	0.087	0.087	0.094	0.088
Raleigh, NC	Raleigh-Cary, NC	0.087	0.087	0.089	0.096	0.103	0.101
Columbus, OH	Columbus, OH	0.090	0.092	0.092	0.093	0.097	0.095
Memphis, TN	Memphis, TN-MS-AR	0.091	0.094	0.095	0.093	0.095	0.097

Detroit, MI	Detroit-Warren-Livonia, MI	0.093	0.094	0.092	0.093	0.095	0.089
Birmingham, AL	Birmingham-Hoover, AL	0.096	0.096	0.095	0.095	0.097	0.102
Knoxville, TN	Knoxville, TN	0.093	0.093	0.095	0.100	0.104	0.104
Indianapolis, IN	Indianapolis-Carmel, IN	0.094	0.098	0.097	0.098	0.097	0.095
Arlington, VA	Arlington County, VA	0.095	0.090	0.091	0.092	0.097	0.092
Baton Rouge, LA	Baton Rouge, LA	0.091	0.094	0.096	0.095	0.094	0.098
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.096	0.094	0.095	0.091	0.093	0.086
Modesto, CA	Modesto, CA	0.095	0.096	0.096	0.098	0.095	0.096
Akron, OH	Akron, OH	0.090	0.089	0.091	0.092	0.094	0.093
Louisville, KY	Louisville/Jefferson County, KY-IN	0.100	0.094	0.092	0.094	0.096	0.099
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.092	0.097	0.098	0.093	0.097	0.092
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.098	0.099	0.095	0.092	0.095	0.094
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.098	0.100	0.099	0.098	0.099	0.095
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.094	0.094	0.097	0.103	0.104	0.104

Coventry, RI	Kent County, RI	0.096	0.094	0.096	0.090	0.092	0.088
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.097	0.094	0.097	0.090	0.092	0.088
St Louis, MO	St. Louis, MO-IL	0.098	0.104	0.100	0.095	0.095	0.094
Pittsburgh, PA	Pittsburgh, PA	0.105	0.103	0.105	0.099	0.101	0.096
Muskegon, MI	Muskegon-Norton Shores, MI	0.096	0.101	0.099	0.091	0.093	0.091
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.099	0.099	0.099	0.101	0.102	0.100
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.099	0.097	0.096	0.091	0.095	0.093
Biddeford, ME	Portland-South Portland-Biddeford, ME	0.096	0.092	0.096	0.092	0.092	0.084
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.106	0.104	0.104	0.098	0.101	0.102
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.098	0.094	0.100	0.101	0.106	0.101
Jersey City, NJ	Hudson County, NJ	0.100	0.095	0.098	0.093	0.100	0.092
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.106	0.106	0.099	0.103	0.103	0.107

Baltimore, MD	Baltimore-Towson, MD	0.107	0.105	0.107	0.104	0.109	0.107
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.104	0.101	0.110	0.107	0.110	0.106
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.109	0.105	0.110	0.113	0.118	0.121
Anaheim, CA	Orange County, CA	0.107	0.100	0.088	0.088	0.084	0.084
Fresno, CA	Fresno, CA	0.108	0.107	0.111	0.115	0.113	0.111
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.108	0.104	0.099	0.102	0.099	0.100
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.106	0.104	0.108	0.104	0.107	0.107
Bakersfield, CA	Bakersfield, CA	0.119	0.119	0.115	0.115	0.111	0.111
Houston, TX	Houston-Sugar Land-Baytown, TX	0.114	0.116	0.117	0.116	0.118	0.112
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.156	0.145	0.135	0.133	0.118	0.115
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.165	0.161	0.148	0.154	0.147	0.146

San Bernadino, CA	San Bernardino County, CA	0.165	0.161	0.148	0.154	0.147	0.146

Table A-11. Schwartz (2005)

city_name	census_area_name	dv1986_1988	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992	dv1991_1993
Colorado Springs, CO	Colorado Springs, CO	0.061	0.063		0.066	0.063	0.062
Provo/Orem, UT	Provo-Orem, UT	0.079	0.076				
Boulder, CO	Boulder, CO	0.084	0.082	0.078	0.076	0.073	0.073
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.079	0.078	0.086	0.077
Birmingham, AL	Birmingham-Hoover, AL	0.104	0.094	0.093	0.084	0.088	0.089
Columbus, OH	Columbus, OH	0.093	0.097	0.095	0.089	0.092	0.090
Detroit, MI	Detroit-Warren-Livonia, MI	0.100	0.099	0.099	0.096	0.091	0.089
Canton, OH	Canton-Massillon, OH	0.102	0.103	0.101	0.091	0.089	0.089
Pittsburgh, PA	Pittsburgh, PA	0.104	0.107	0.098	0.092	0.088	0.095
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.109	0.106	0.107	0.102	0.095	0.091
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.112	0.114	0.114	0.104	0.099	0.100

New Haven, CT	New Haven-Milford, CT	0.112	0.113	0.116	0.116	0.113	0.108
Houston, TX	Houston-Sugar Land-Baytown, TX	0.118	0.117	0.119	0.119	0.116	0.104
Spokane, WA	Spokane, WA						

Table A-12. Bell et al. (2006); Bell et al. (2007); Bell et al. (2008)

city_name	census_area_name	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992	dv1991_1993	dv1992_1994
Honolulu, HI	Honolulu, HI	0.020	0.018				
Lincoln, NE	Lincoln, NE	0.058	0.061	0.058	0.061	0.058	0.059
Colorado Springs, CO	Colorado Springs, CO	0.063		0.066	0.063	0.062	0.061
Des Moines, IA	Des Moines-West Des Moines, IA						
Cedar Rapids, IA	Cedar Rapids, IA	0.076	0.070		0.063	0.064	0.064
Spokane, WA	Spokane, WA						
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.077	0.078	0.072	0.071	0.065	0.062
Albuquerque, NM	Albuquerque, NM	0.073	0.073	0.071	0.071	0.069	0.070
Wichita, KS	Wichita, KS	0.080	0.081	0.075	0.073	0.067	0.065
Tucson, AZ	Tucson, AZ	0.068	0.074	0.069	0.072	0.077	0.078
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.077	0.085	0.082	0.091	0.076	0.078
Mobile, AL	Mobile, AL	0.078	0.080	0.062	0.064	0.070	0.074

Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074
Jackson, MS	Jackson, MS	0.075	0.079	0.076	0.076	0.074	0.075
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.083	0.079	0.075	0.073	0.076	0.080
Madison, WI	Madison, WI	0.091	0.079	0.081	0.079	0.073	0.072
Las Vegas, NV	Las Vegas-Paradise, NV	0.081	0.078	0.078	0.076	0.075	0.079
Columbus, GA	Columbus, GA-AL	0.079	0.075	0.071	0.073		0.077
Denver, CO	Denver-Aurora-Broomfield, CO	0.087	0.086	0.080	0.074	0.071	0.074
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.085	0.082	0.079	0.080	0.078	0.077
Orlando, FL	Orlando-Kissimmee, FL	0.082	0.082	0.080	0.079	0.078	0.082
Corpus Christi, TX	Corpus Christi, TX	0.089	0.085	0.079	0.077	0.078	0.079
El Paso, TX	El Paso, TX	0.088	0.083	0.080	0.079	0.078	0.081
Salt Lake City, UT	Salt Lake City, UT	0.085	0.082	0.078	0.075	0.076	0.079
Jacksonville, FL	Jacksonville, FL	0.086	0.084	0.081	0.079	0.079	0.081
Syracuse, NY	Syracuse, NY	0.092	0.088	0.083	0.083	0.087	0.081
Lafayette, LA	Lafayette, LA	0.085	0.083	0.077			
St. Petersburg, FL	Tampa-St. Petersburg-Clearwater, FL	0.086	0.085	0.079	0.081	0.080	0.080
Tampa, FL	Tampa-St. Petersburg-	0.086	0.085	0.079	0.081	0.080	0.080

	Clearwater, FL						
Kingston, NY	Kingston, NY					0.091	0.086
Huntsville, AL	Huntsville, AL	0.087	0.083	0.077	0.082	0.085	0.083
Austin, TX	Austin-Round Rock, TX	0.084	0.086	0.084	0.084	0.081	0.082
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.090	0.085	0.077	0.080	0.081	0.086
San Antonio, TX	San Antonio, TX	0.085	0.085	0.082	0.079	0.079	0.082
Oklahoma City, OK	Oklahoma City, OK	0.087	0.087	0.086	0.084	0.081	0.081
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.097	0.088	0.082	0.083	0.080	0.080
Lake Charles, LA	Lake Charles, LA	0.093	0.090	0.087	0.086	0.079	0.079
Shreveport, LA	Shreveport-Bossier City, LA	0.087	0.088	0.084	0.086	0.085	0.086
Lexington, KY	Lexington-Fayette, KY	0.099	0.096	0.085	0.078	0.077	0.079
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.084	0.082	0.081	0.082
Rochester, NY	Rochester, NY	0.099	0.095	0.092	0.090	0.088	0.080
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.077	0.082	0.083	0.091	0.088	0.086
Kansas City, KS	Kansas City, MO-KS	0.088	0.086	0.082	0.083	0.082	0.082
Kansas City, MO	Kansas City, MO-KS	0.088	0.086	0.082	0.083	0.082	0.082
Stockton, CA	Stockton, CA	0.093	0.090	0.087	0.088	0.088	0.087

Tulsa, OK	Tulsa, OK	0.089	0.090	0.087	0.087	0.082	0.083
Johnstown, PA	Johnstown, PA	0.097	0.093	0.086	0.083	0.084	0.080
Buffalo, NY	Buffalo-Niagara Falls, NY	0.100	0.095	0.089	0.088	0.086	0.083
Toledo, OH	Toledo, OH	0.102	0.099	0.086	0.082	0.085	0.086
Ft. Wayne, IN	Fort Wayne, IN	0.094	0.092	0.087	0.085	0.085	0.088
Greensboro, NC	Greensboro-High Point, NC	0.097	0.100	0.088	0.085	0.083	0.084
Dayton, OH	Dayton, OH	0.096	0.092	0.086	0.082	0.084	0.086
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.105	0.103	0.096	0.090	0.085	0.081
Newark, NJ	Essex County, NJ	0.105	0.098	0.088	0.086	0.084	0.081
Worcester, MA	Worcester, MA	0.091	0.091	0.089	0.091		0.095
Raleigh, NC	Raleigh-Cary, NC	0.099	0.093	0.089	0.086	0.087	0.086
Columbus, OH	Columbus, OH	0.097	0.095	0.089	0.092	0.090	0.086
Evansville, IN	Evansville, IN-KY	0.100	0.099	0.091	0.088	0.087	0.089
Memphis, TN	Memphis, TN-MS-AR	0.095	0.095	0.089	0.091	0.090	0.090
Detroit, MI	Detroit-Warren-Livonia, MI	0.099	0.099	0.096	0.091	0.089	0.088
Birmingham, AL	Birmingham-Hoover, AL	0.094	0.093	0.084	0.088	0.089	0.092
Knoxville, TN	Knoxville, TN	0.093	0.094	0.086	0.089	0.088	0.089
Indianapolis, IN	Indianapolis-Carmel, IN	0.098	0.095	0.091	0.089	0.087	0.090
Arlington, VA	Arlington County, VA	0.106	0.101	0.093	0.092	0.096	0.091
Baton Rouge, LA	Baton Rouge, LA	0.098	0.101	0.099	0.096	0.090	0.087
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.105	0.101	0.098	0.092	0.096	0.093

Modesto, CA	Modesto, CA	0.102	0.099	0.095	0.092	0.086	0.093
Akron, OH	Akron, OH	0.112	0.109	0.099	0.093	0.094	0.088
Louisville, KY	Louisville/Jefferson County, KY-IN	0.098	0.099	0.096	0.092	0.094	0.094
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.117	0.105	0.101	0.095	0.090	0.084
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.106	0.107	0.102	0.095	0.091	0.091
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.105	0.104	0.093	0.090	0.092	0.093
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.104	0.101	0.092	0.091	0.091	0.092
Coventry, RI	Kent County, RI	0.108	0.108	0.107	0.105	0.099	0.088
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.108	0.108	0.107	0.105	0.099	0.092
St Louis, MO	St. Louis, MO-IL	0.111	0.102	0.098	0.098	0.091	0.091
Pittsburgh, PA	Pittsburgh, PA	0.107	0.098	0.092	0.088	0.095	0.096
Muskegon, MI	Muskegon-Norton Shores, MI	0.117	0.113	0.109		0.093	0.086
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.104	0.104	0.096	0.096	0.095	0.096
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.114	0.114	0.104	0.099	0.100	0.093
Biddeford, ME	Portland-South Portland-Biddeford, ME	0.117	0.115	0.109	0.105	0.102	0.095

Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.100	0.105	0.105	0.099	0.095	0.096
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.115	0.107	0.100	0.100	0.101	0.096
Jersey City, NJ	Hudson County, NJ	0.118	0.115	0.107	0.104	0.103	0.096
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.114	0.107	0.105	0.105	0.110	0.104
Baltimore, MD	Baltimore-Towson, MD	0.125	0.115	0.104	0.106	0.107	0.103
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.123	0.120	0.113	0.107	0.106	0.099
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.113	0.107	0.104	0.105	0.101	0.101
Anaheim, CA	Orange County, CA	0.141	0.138	0.127	0.120	0.114	0.117
Fresno, CA	Fresno, CA	0.115	0.110	0.108	0.108	0.111	0.107
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.125	0.129	0.125	0.118	0.112	0.109
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.129	0.128	0.122	0.116	0.108	0.100
Bakersfield, CA	Bakersfield, CA	0.116	0.112	0.118	0.115	0.112	0.111
Houston, TX	Houston-Sugar Land-Baytown, TX	0.117	0.119	0.119	0.116	0.104	0.110
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.192	0.186	0.179	0.177	0.177	0.168

Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.188	0.185	0.182	0.180	0.177	0.171
San Bernadino, CA	San Bernardino County, CA	0.188	0.185	0.182	0.180	0.177	0.171

Table A-12. Continued

city_name	census_area_name	dv1993_1995	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000
Honolulu, HI	Honolulu, HI				0.045	0.048	0.047
Lincoln, NE	Lincoln, NE	0.057	0.058	0.056	0.055	0.055	0.056
Colorado Springs, CO	Colorado Springs, CO	0.061	0.056			0.062	0.065
Des Moines, IA	Des Moines-West Des Moines, IA		0.062	0.066	0.061	0.066	0.071
Cedar Rapids, IA	Cedar Rapids, IA	0.062	0.063	0.062	0.060	0.069	0.072
Spokane, WA	Spokane, WA	0.064	0.066	0.066	0.068	0.067	0.067
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.062	0.067	0.067	0.063	0.072	0.074
Albuquerque, NM	Albuquerque, NM	0.071	0.074	0.069	0.073	0.071	0.075
Wichita, KS	Wichita, KS	0.065	0.072	0.074	0.078	0.080	0.080
Tucson, AZ	Tucson, AZ	0.081	0.079	0.079	0.077	0.075	0.073
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.058	0.083	0.078	0.080	0.062	0.061
Mobile, AL	Mobile, AL	0.075	0.077	0.080	0.086	0.088	0.090
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.078	0.081	0.074	0.075

Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.071	0.076	0.078	0.081	0.074	0.075
Jackson, MS	Jackson, MS	0.076	0.077	0.077	0.080	0.081	0.083
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.080	0.074	0.075	0.077	0.078	0.079
Madison, WI	Madison, WI	0.072	0.080	0.081	0.078	0.080	0.078
Las Vegas, NV	Las Vegas-Paradise, NV	0.079	0.080	0.079	0.080	0.077	0.085
Columbus, GA	Columbus, GA-AL	0.078	0.081	0.083	0.084	0.089	0.093
Denver, CO	Denver-Aurora-Broomfield, CO	0.081	0.081	0.079	0.084	0.083	0.086
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.080	0.080	0.081	0.080	0.082	0.087
Orlando, FL	Orlando-Kissimmee, FL	0.079	0.079	0.078	0.084	0.085	0.085
Corpus Christi, TX	Corpus Christi, TX	0.082	0.083	0.083	0.080	0.081	0.083
El Paso, TX	El Paso, TX	0.084	0.089	0.080	0.082	0.078	0.080
Salt Lake City, UT	Salt Lake City, UT	0.082	0.089	0.085	0.088	0.082	0.088
Jacksonville, FL	Jacksonville, FL	0.080	0.078	0.081	0.088	0.088	0.085
Syracuse, NY	Syracuse, NY	0.082	0.079	0.079	0.077	0.082	0.080
Lafayette, LA	Lafayette, LA		0.085	0.084	0.083	0.082	0.087
St. Petersburg, FL	Tampa-St. Petersburg-Clearwater, FL	0.080	0.081	0.082	0.088	0.090	0.088
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.080	0.081	0.082	0.088	0.090	0.088
Kingston, NY	Kingston, NY	0.084	0.080	0.082	0.081	0.083	0.080

Huntsville, AL	Huntsville, AL	0.080	0.078	0.082	0.086	0.090	0.091
Austin, TX	Austin-Round Rock, TX	0.084	0.084	0.081	0.081	0.089	0.089
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.084	0.085	0.083	0.084	0.086	0.091
San Antonio, TX	San Antonio, TX	0.087	0.087	0.087	0.085	0.088	0.086
Oklahoma City, OK	Oklahoma City, OK	0.084	0.085	0.083	0.085	0.086	0.084
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.083	0.088	0.085	0.086	0.082	0.082
Lake Charles, LA	Lake Charles, LA	0.086	0.080	0.085	0.085	0.088	0.088
Shreveport, LA	Shreveport-Bossier City, LA	0.083	0.080	0.082	0.084	0.089	0.092
Lexington, KY	Lexington-Fayette, KY	0.087	0.087	0.085	0.085	0.087	0.085
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.087	0.093	0.090	0.089	0.086	0.087
Rochester, NY	Rochester, NY	0.085	0.081	0.083	0.080	0.086	0.081
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.089	0.090	0.092	0.091	0.088	0.088
Kansas City, KS	Kansas City, MO-KS	0.090	0.092	0.094	0.093	0.091	0.089
Kansas City, MO	Kansas City, MO-KS	0.090	0.092	0.094	0.093	0.091	0.089
Stockton, CA	Stockton, CA	0.086	0.085	0.087	0.087	0.087	0.088
Tulsa, OK	Tulsa, OK	0.088	0.091	0.089	0.087	0.088	0.093
Johnstown, PA	Johnstown, PA	0.085	0.085	0.088	0.091	0.093	0.091
Buffalo, NY	Buffalo-Niagara	0.087	0.086	0.085	0.083	0.086	0.089

	Falls, NY						
Toledo, OH	Toledo, OH	0.090	0.091	0.089	0.089	0.086	0.084
Ft. Wayne, IN	Fort Wayne, IN	0.089	0.093	0.090	0.090	0.088	0.090
Greensboro, NC	Greensboro-High Point, NC	0.088	0.086	0.085	0.089	0.092	0.094
Dayton, OH	Dayton, OH	0.092	0.093	0.091	0.093	0.093	0.090
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.086	0.089	0.088	0.085	0.087	0.084
Newark, NJ	Essex County, NJ	0.088	0.088	0.092	0.088	0.093	
Worcester, MA	Worcester, MA	0.095	0.089	0.087	0.087	0.094	0.088
Raleigh, NC	Raleigh-Cary, NC	0.087	0.087	0.089	0.096	0.103	0.101
Columbus, OH	Columbus, OH	0.090	0.092	0.092	0.093	0.097	0.095
Evansville, IN	Evansville, IN-KY	0.094	0.095	0.093	0.093	0.094	0.091
Memphis, TN	Memphis, TN-MS-AR	0.091	0.094	0.095	0.093	0.095	0.097
Detroit, MI	Detroit-Warren-Livonia, MI	0.093	0.094	0.092	0.093	0.095	0.089
Birmingham, AL	Birmingham-Hoover, AL	0.096	0.096	0.095	0.095	0.097	0.102
Knoxville, TN	Knoxville, TN	0.093	0.093	0.095	0.100	0.104	0.104
Indianapolis, IN	Indianapolis-Carmel, IN	0.094	0.098	0.097	0.098	0.097	0.095
Arlington, VA	Arlington County, VA	0.095	0.090	0.091	0.092	0.097	0.092
Baton Rouge, LA	Baton Rouge, LA	0.091	0.094	0.096	0.095	0.094	0.098
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.096	0.094	0.095	0.091	0.093	0.086
Modesto, CA	Modesto, CA	0.095	0.096	0.096	0.098	0.095	0.096
Akron, OH	Akron, OH	0.090	0.089	0.091	0.092	0.094	0.093

Louisville, KY	Louisville/Jefferson County, KY-IN	0.100	0.094	0.092	0.094	0.096	0.099
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.092	0.097	0.098	0.093	0.097	0.092
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.098	0.099	0.095	0.092	0.095	0.094
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.098	0.100	0.099	0.098	0.099	0.095
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.094	0.094	0.097	0.103	0.104	0.104
Coventry, RI	Kent County, RI	0.096	0.094	0.096	0.090	0.092	0.088
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.097	0.094	0.097	0.090	0.092	0.088
St Louis, MO	St. Louis, MO-IL	0.098	0.104	0.100	0.095	0.095	0.094
Pittsburgh, PA	Pittsburgh, PA	0.105	0.103	0.105	0.099	0.101	0.096
Muskegon, MI	Muskegon-Norton Shores, MI	0.096	0.101	0.099	0.091	0.093	0.091
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.099	0.099	0.099	0.101	0.102	0.100
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.099	0.097	0.096	0.091	0.095	0.093
Biddeford, ME	Portland-South Portland-Biddeford, ME	0.096	0.092	0.096	0.092	0.092	0.084
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.106	0.104	0.104	0.098	0.101	0.102

Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.098	0.094	0.100	0.101	0.106	0.101
Jersey City, NJ	Hudson County, NJ	0.100	0.095	0.098	0.093	0.100	0.092
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.106	0.106	0.099	0.103	0.103	0.107
Baltimore, MD	Baltimore-Towson, MD	0.107	0.105	0.107	0.104	0.109	0.107
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.104	0.101	0.110	0.107	0.110	0.106
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.109	0.105	0.110	0.113	0.118	0.121
Anaheim, CA	Orange County, CA	0.107	0.100	0.088	0.088	0.084	0.084
Fresno, CA	Fresno, CA	0.108	0.107	0.111	0.115	0.113	0.111
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.108	0.104	0.099	0.102	0.099	0.100
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.106	0.104	0.108	0.104	0.107	0.107
Bakersfield, CA	Bakersfield, CA	0.119	0.119	0.115	0.115	0.111	0.111
Houston, TX	Houston-Sugar Land-Baytown, TX	0.114	0.116	0.117	0.116	0.118	0.112
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.156	0.145	0.135	0.133	0.118	0.115
Riverside, CA	Riverside-San Bernardino-	0.165	0.161	0.148	0.154	0.147	0.146

	Ontario, CA						
San Bernadino, CA	San Bernardino County, CA	0.165	0.161	0.148	0.154	0.147	0.146

Table A-13. Franklin and Schwartz (2008)

city_name	census_area_name	dv2000_2002	dv2001_2003	dv2002_2004	dv2003_2005
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.068	0.072	0.074	0.071
El Paso, TX	El Paso, TX	0.081	0.079	0.078	0.076
Rochester, NY	Rochester, NY	0.085	0.088	0.081	0.073
Kansas City, MO	Kansas City, MO-KS	0.085	0.085	0.083	0.083
St Louis, MO	St. Louis, MO-IL	0.090	0.092	0.089	0.086
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.090	0.093	0.091	0.085
Beaumont, TX	Beaumont-Port Arthur, TX	0.090	0.091	0.092	0.088
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.095	0.093	0.089	0.086
Pittsburgh, PA	Pittsburgh, PA	0.095	0.094	0.090	0.084
Detroit, MI	Detroit-Warren-Livonia, MI	0.088	0.097	0.092	0.090

Buffalo, NY	Buffalo-Niagara Falls, NY	0.097	0.099	0.091	0.086
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.099	0.103	0.095	0.089
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.099	0.100	0.098	0.095
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.107	0.101	0.095	0.091
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.106	0.107	0.102	0.097
Houston, TX	Houston-Sugar Land-Baytown, TX	0.107	0.102	0.101	0.103
Fresno, CA	Fresno, CA	0.115	0.111	0.104	0.099
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.128	0.131	0.127	0.127

Table A-14. Zanobetti and Schwartz (2008a and b); Medina-Ramon and Schwartz (2008)

city_name	**census_area_name**	**dv1989_1991**	**dv1990_1992**	**dv1991_1993**	**dv1992_1994**	**dv1993_1995**	**dv1994_1996**	**dv1995_1997**	**dv1996_1998**	**dv1997_1999**	**dv1998_2000**
Honolulu, HI	Honolulu, HI								0.045	0.048	0.047
Colorado Springs, CO	Colorado Springs, CO	0.066	0.063	0.062	0.061	0.061	0.056			0.062	0.065
Spokane, WA	Spokane, WA					0.064	0.066	0.066	0.068	0.067	0.067
Albuquerque, NM	Albuquerque, NM	0.071	0.071	0.069	0.070	0.071	0.074	0.069	0.073	0.071	0.075

Ft. Lauderdale, FL	Broward County, FL	0.075	0.073	0.076	0.079	0.074	0.069	0.069	0.072	0.075	0.075
Boulder, CO	Boulder, CO	0.076	0.073	0.073	0.071	0.072	0.071	0.071	0.078	0.078	0.078
Provo/Orem, UT	Provo-Orem, UT				0.069	0.068	0.071	0.076	0.082	0.082	0.086
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.075	0.073	0.076	0.080	0.080	0.074	0.075	0.077	0.078	0.079
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.078	0.086	0.077	0.074	0.071	0.076	0.078	0.081	0.074	0.075
Denver, CO	Denver-Aurora-Broomfield, CO	0.080	0.074	0.071	0.074	0.081	0.081	0.079	0.084	0.083	0.086
Orlando, FL	Orlando-Kissimmee, FL	0.080	0.079	0.078	0.082	0.079	0.079	0.078	0.084	0.085	0.085
Salt Lake City, UT	Salt Lake City, UT	0.078	0.075	0.076	0.079	0.082	0.089	0.085	0.088	0.082	0.088
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.079	0.081	0.080	0.080	0.080	0.081	0.082	0.088	0.090	0.088
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.077	0.080	0.081	0.086	0.084	0.085	0.083	0.084	0.086	0.091
Oklahoma City, OK	Oklahoma City, OK	0.086	0.084	0.081	0.081	0.084	0.085	0.083	0.085	0.086	0.084

Terra Haute, IN	Terre Haute, IN	0.087	0.081	0.077	0.079	0.084	0.092	0.088	0.088	0.083	0.080
Austin, TX	Austin-Round Rock, TX	0.084	0.084	0.081	0.082	0.084	0.084	0.081	0.081	0.089	0.089
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.084	0.082	0.081	0.082	0.087	0.093	0.090	0.089	0.086	0.087
Greensboro, NC	Greensboro-High Point, NC	0.088	0.085	0.083	0.084	0.088	0.086	0.085	0.089	0.092	0.094
Tulsa, OK	Tulsa, OK	0.087	0.087	0.082	0.083	0.088	0.091	0.089	0.087	0.088	0.093
Kansas City, KS	Kansas City, MO-KS	0.082	0.083	0.082	0.082	0.090	0.092	0.094	0.093	0.091	0.089
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.083	0.091	0.088	0.086	0.089	0.090	0.092	0.091	0.088	0.088
Canton, OH	Canton-Massillon, OH	0.091	0.089	0.089	0.088	0.091	0.089	0.088	0.089	0.091	0.091
Columbus, OH	Columbus, OH	0.089	0.092	0.090	0.086	0.090	0.092	0.092	0.093	0.097	0.095
Detroit, MI	Detroit-Warren-Livonia, MI	0.096	0.091	0.089	0.088	0.093	0.094	0.092	0.093	0.095	0.089
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.090	0.091	0.091	0.089	0.091	0.092	0.093	0.096	0.096	0.092
Birmingham, AL	Birmingham-Hoover, AL	0.084	0.088	0.089	0.092	0.096	0.096	0.095	0.095	0.097	0.102

Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.098	0.092	0.096	0.093	0.096	0.094	0.095	0.091	0.093	0.086
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.101	0.095	0.090	0.084	0.092	0.097	0.098	0.093	0.097	0.092
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.102	0.095	0.091	0.091	0.098	0.099	0.095	0.092	0.095	0.094
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.093	0.090	0.092	0.093	0.098	0.100	0.099	0.098	0.099	0.095
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.092	0.091	0.091	0.092	0.094	0.094	0.097	0.103	0.104	0.104
St Louis, MO	St. Louis, MO-IL	0.098	0.098	0.091	0.091	0.098	0.104	0.100	0.095	0.095	0.094
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.104	0.099	0.100	0.093	0.099	0.097	0.096	0.091	0.095	0.093
Pittsburgh, PA	Pittsburgh, PA	0.092	0.088	0.095	0.096	0.105	0.103	0.105	0.099	0.101	0.096
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.096	0.096	0.095	0.096	0.099	0.099	0.099	0.101	0.102	0.100
Jersey City, NJ	Hudson County, NJ	0.107	0.104	0.103	0.096	0.100	0.095	0.098	0.093	0.100	0.092

Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.100	0.100	0.101	0.096	0.098	0.094	0.100	0.101	0.106	0.101
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.105	0.099	0.095	0.096	0.106	0.104	0.104	0.098	0.101	0.102
New Haven, CT	New Haven-Milford, CT	0.116	0.113	0.108	0.097	0.105	0.101	0.107	0.100	0.103	0.096
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.105	0.105	0.110	0.104	0.106	0.106	0.099	0.103	0.103	0.107
Baltimore, MD	Baltimore-Towson, MD	0.104	0.106	0.107	0.103	0.107	0.105	0.107	0.104	0.109	0.107
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.113	0.107	0.106	0.099	0.104	0.101	0.110	0.107	0.110	0.106
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.125	0.118	0.112	0.109	0.108	0.104	0.099	0.102	0.099	0.100
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.122	0.116	0.108	0.100	0.106	0.104	0.108	0.104	0.107	0.107

Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.104	0.105	0.101	0.101	0.109	0.105	0.110	0.113	0.118	0.121
Houston, TX	Houston-Sugar Land-Baytown, TX	0.119	0.116	0.104	0.110	0.114	0.116	0.117	0.116	0.118	0.112
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.179	0.177	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115

Table A-15. Katsouyanni et al. (2009), Mortality

city_name	**census_area_name**	**dv1987_1989**	**dv1988_1990**	**dv1989_1991**	**dv1990_1992**	**dv1991_1993**	**dv1992_1994**	**dv1993_1995**	**dv1994_1996**
Honolulu, HI	Honolulu, HI	0.020	0.018						
Lincoln, NE	Lincoln, NE	0.058	0.061	0.058	0.061	0.058	0.059	0.057	0.058
Colorado Springs, CO	Colorado Springs, CO	0.063		0.066	0.063	0.062	0.061	0.061	0.056
Des Moines, IA	Des Moines-West Des Moines, IA								0.062
Spokane, WA	Spokane, WA							0.064	0.066
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.077	0.078	0.072	0.071	0.065	0.062	0.062	0.067
Albuquerque, NM	Albuquerque, NM	0.073	0.073	0.071	0.071	0.069	0.070	0.071	0.074
Wichita, KS	Wichita, KS	0.080	0.081	0.075	0.073	0.067	0.065	0.065	0.072
Mobile, AL	Mobile, AL	0.078	0.080	0.062	0.064	0.070	0.074	0.075	0.077

Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.080	0.079	0.068	0.070	0.069	0.070	0.072	0.074
Tucson, AZ	Tucson, AZ	0.068	0.074	0.069	0.072	0.077	0.078	0.081	0.079
Jackson, MS	Jackson, MS	0.075	0.079	0.076	0.076	0.074	0.075	0.076	0.077
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074	0.071	0.076
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.079	0.078	0.086	0.077	0.074	0.071	0.076
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.083	0.079	0.075	0.073	0.076	0.080	0.080	0.074
Las Vegas, NV	Las Vegas-Paradise, NV	0.081	0.078	0.078	0.076	0.075	0.079	0.079	0.080
Madison, WI	Madison, WI	0.091	0.079	0.081	0.079	0.073	0.072	0.072	0.080
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.077	0.085	0.082	0.091	0.076	0.078	0.058	0.083
Denver, CO	Denver-Aurora-Broomfield, CO	0.087	0.086	0.080	0.074	0.071	0.074	0.081	0.081
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.085	0.082	0.079	0.080	0.078	0.077	0.080	0.080
Orlando, FL	Orlando-Kissimmee, FL	0.082	0.082	0.080	0.079	0.078	0.082	0.079	0.079
Salt Lake City, UT	Salt Lake City, UT	0.085	0.082	0.078	0.075	0.076	0.079	0.082	0.089
Jacksonville, FL	Jacksonville, FL	0.086	0.084	0.081	0.079	0.079	0.081	0.080	0.078
Corpus Christi, TX	Corpus Christi, TX	0.089	0.085	0.079	0.077	0.078	0.079	0.082	0.083

St. Petersburg, FL	Tampa-St. Petersburg-Clearwater, FL	0.086	0.085	0.079	0.081	0.080	0.080	0.080	0.081
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.086	0.085	0.079	0.081	0.080	0.080	0.080	0.081
Huntsville, AL	Huntsville, AL	0.087	0.083	0.077	0.082	0.085	0.083	0.080	0.078
El Paso, TX	El Paso, TX	0.088	0.083	0.080	0.079	0.078	0.081	0.084	0.089
San Antonio, TX	San Antonio, TX	0.085	0.085	0.082	0.079	0.079	0.082	0.087	0.087
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.090	0.085	0.077	0.080	0.081	0.086	0.084	0.085
Austin, TX	Austin-Round Rock, TX	0.084	0.086	0.084	0.084	0.081	0.082	0.084	0.084
Oklahoma City, OK	Oklahoma City, OK	0.087	0.087	0.086	0.084	0.081	0.081	0.084	0.085
Syracuse, NY	Syracuse, NY	0.092	0.088	0.083	0.083	0.087	0.081	0.082	0.079
Shreveport, LA	Shreveport-Bossier City, LA	0.087	0.088	0.084	0.086	0.085	0.086	0.083	0.080
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.097	0.088	0.082	0.083	0.080	0.080	0.083	0.088
Kansas City, MO	Kansas City, MO-KS	0.088	0.086	0.082	0.083	0.082	0.082	0.090	0.092
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.084	0.082	0.081	0.082	0.087	0.093
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.084	0.082	0.081	0.082	0.087	0.093
Phoenix,	Phoenix-Mesa-	0.077	0.082	0.083	0.091	0.088	0.086	0.089	0.090

AZ	Scottsdale, AZ								
Lexington, KY	Lexington-Fayette, KY	0.099	0.096	0.085	0.078	0.077	0.079	0.087	0.087
Tulsa, OK	Tulsa, OK	0.089	0.090	0.087	0.087	0.082	0.083	0.088	0.091
Stockton, CA	Stockton, CA	0.093	0.090	0.087	0.088	0.088	0.087	0.086	0.085
Rochester, NY	Rochester, NY	0.099	0.095	0.092	0.090	0.088	0.080	0.085	0.081
Dayton, OH	Dayton, OH	0.096	0.092	0.086	0.082	0.084	0.086	0.092	0.093
Greensboro, NC	Greensboro-High Point, NC	0.097	0.100	0.088	0.085	0.083	0.084	0.088	0.086
Ft. Wayne, IN	Fort Wayne, IN	0.094	0.092	0.087	0.085	0.085	0.088	0.089	0.093
Buffalo, NY	Buffalo-Niagara Falls, NY	0.100	0.095	0.089	0.088	0.086	0.083	0.087	0.086
Raleigh, NC	Raleigh-Cary, NC	0.099	0.093	0.089	0.086	0.087	0.086	0.087	0.087
Newark, NJ	Essex County, NJ	0.105	0.098	0.088	0.086	0.084	0.081	0.088	0.088
Toledo, OH	Toledo, OH	0.102	0.099	0.086	0.082	0.085	0.086	0.090	0.091
Knoxville, TN	Knoxville, TN	0.093	0.094	0.086	0.089	0.088	0.089	0.093	0.093
Columbus, OH	Columbus, OH	0.097	0.095	0.089	0.092	0.090	0.086	0.090	0.092
Birmingham, AL	Birmingham-Hoover, AL	0.094	0.093	0.084	0.088	0.089	0.092	0.096	0.096
Worcester, MA	Worcester, MA	0.091	0.091	0.089	0.091		0.095	0.095	0.089
Memphis, TN	Memphis, TN-MS-AR	0.095	0.095	0.089	0.091	0.090	0.090	0.091	0.094
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.105	0.103	0.096	0.090	0.085	0.081	0.086	0.089
Indianapolis, IN	Indianapolis-Carmel, IN	0.098	0.095	0.091	0.089	0.087	0.090	0.094	0.098
Madera, CA	Madera-Chowchilla, CA				0.091	0.096	0.091	0.093	0.093

Detroit, MI	Detroit-Warren-Livonia, MI	0.099	0.099	0.096	0.091	0.089	0.088	0.093	0.094
Baton Rouge, LA	Baton Rouge, LA	0.098	0.101	0.099	0.096	0.090	0.087	0.091	0.094
Modesto, CA	Modesto, CA	0.102	0.099	0.095	0.092	0.086	0.093	0.095	0.096
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.104	0.101	0.092	0.091	0.091	0.092	0.094	0.094
Louisville, KY	Louisville/Jefferson County, KY-IN	0.098	0.099	0.096	0.092	0.094	0.094	0.100	0.094
Akron, OH	Akron, OH	0.112	0.109	0.099	0.093	0.094	0.088	0.090	0.089
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.105	0.101	0.098	0.092	0.096	0.093	0.096	0.094
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.105	0.104	0.093	0.090	0.092	0.093	0.098	0.100
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.117	0.105	0.101	0.095	0.090	0.084	0.092	0.097
Pittsburgh, PA	Pittsburgh, PA	0.107	0.098	0.092	0.088	0.095	0.096	0.105	0.103
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.106	0.107	0.102	0.095	0.091	0.091	0.098	0.099
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.104	0.104	0.096	0.096	0.095	0.096	0.099	0.099
St Louis, MO	St. Louis, MO-IL	0.111	0.102	0.098	0.098	0.091	0.091	0.098	0.104
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.100	0.105	0.105	0.099	0.095	0.096	0.106	0.104
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.108	0.108	0.107	0.105	0.099	0.092	0.097	0.094

Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.115	0.107	0.100	0.100	0.101	0.096	0.098	0.094
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.114	0.114	0.104	0.099	0.100	0.093	0.099	0.097
Jersey City, NJ	Hudson County, NJ	0.118	0.115	0.107	0.104	0.103	0.096	0.100	0.095
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.113	0.107	0.104	0.105	0.101	0.101	0.109	0.105
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.114	0.107	0.105	0.105	0.110	0.104	0.106	0.106
Baltimore, MD	Baltimore-Towson, MD	0.125	0.115	0.104	0.106	0.107	0.103	0.107	0.105
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.123	0.120	0.113	0.107	0.106	0.099	0.104	0.101
Fresno, CA	Fresno, CA	0.115	0.110	0.108	0.108	0.111	0.107	0.108	0.107
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.129	0.128	0.122	0.116	0.108	0.100	0.106	0.104
Houston, TX	Houston-Sugar Land-Baytown, TX	0.117	0.119	0.119	0.116	0.104	0.110	0.114	0.116
Bakersfield, CA	Bakersfield, CA	0.116	0.112	0.118	0.115	0.112	0.111	0.119	0.119
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.125	0.129	0.125	0.118	0.112	0.109	0.108	0.104
Anaheim, CA	Orange County, CA	0.141	0.138	0.127	0.120	0.114	0.117	0.107	0.100

Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.192	0.186	0.179	0.177	0.177	0.168	0.156	0.145
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.188	0.185	0.182	0.180	0.177	0.171	0.165	0.161
San Bernadino, CA	San Bernardino County, CA	0.188	0.185	0.182	0.180	0.177	0.171	0.165	0.161
Anchorage, AK	Anchorage, AK								

Table A-16. Islam et al. (2008); Islam et al. (2009)

city_name	**census_area_name**	**dv1994_ 1996**	**dv1995_ 1997**	**dv1996_ 1998**	**dv1997_ 1999**	**dv1998_ 2000**	**dv1999_ 2001**	**dv2000_ 2002**	**dv2001_ 2003**
Long Beach, CA	Los Angeles County, CA	0.145	0.135	0.133	0.118	0.115	0.105	0.113	0.126
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131
Alpine, CA	San Diego County, CA	0.104	0.099	0.102	0.099	0.100	0.094	0.095	0.093
Atascadero, CA	San Luis Obispo County, CA								
Lake Elsinore, CA	Riverside County, CA	0.140	0.129	0.127	0.124	0.114	0.111	0.113	0.118
Lake Gregory, CA	San Bernardino County, CA	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131
Lompoc, CA	Santa Barbara County, CA	0.094	0.089	0.087	0.082	0.081	0.080	0.082	0.084
Mira Loma, CA	Riverside County, CA	0.140	0.129	0.127	0.124	0.114	0.111	0.113	0.118
San Dimas, CA	Los Angeles County, CA	0.145	0.135	0.133	0.118	0.115	0.105	0.113	0.126

Santa Maria, CA	Santa Barbara County, CA	0.094	0.089	0.087	0.082	0.081	0.080	0.082	0.084
Upland, CA	San Bernardino County, CA	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131

Table A-17. Lin et al. (2008)

city_name	census_area_name	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000	dv1999_2001
Amherst, NY	Erie County, NY	0.076	0.080	0.085	0.089	0.092
Babylon, NY	Suffolk County, NY	0.102	0.097	0.098	0.094	0.091
Belleayre, NY	Ulster County, NY	0.082	0.081	0.083	0.080	0.081
Camden, NY	Oneida County, NY	0.072	0.071	0.076	0.073	0.076
Dunkirk, NY	Chautauqua County, NY	0.085	0.087	0.089	0.088	0.089
Elmira, NY	Elmira, NY	0.073	0.075	0.079	0.079	0.079
Grafton, NY	Rensselaer County, NY					
Loudonville, NY	Albany County, NY	0.081	0.080	0.080	0.077	0.080
Middleport, NY	Niagara County, NY	0.085	0.083	0.086	0.085	0.087
Millbrook, NY	Dutchess County, NY	0.090	0.089	0.090	0.087	0.087
Mt. Ninham, NY	Putnam County, NY	0.090	0.091	0.094	0.089	0.089
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.108	0.104	0.107	0.107	0.109
Nick's Lake, NY	Herkimer County, NY	0.070	0.068	0.072	0.070	0.072
Perch River, NY	Jefferson County, NY	0.088	0.085	0.090	0.083	0.087
Piseco Lake, NY	Hamilton County, NY	0.075	0.075	0.079	0.077	0.077
Riverhead, NY	Suffolk County, NY	0.102	0.097	0.098	0.094	0.091
Rochester, NY	Rochester, NY	0.083	0.080	0.086	0.081	0.081
Schenectady, NY	Schenectady County, NY	0.074	0.071	0.075	0.071	0.075
Stillwater, NY	Saratoga County, NY	0.076	0.076	0.084	0.080	0.084
Syracuse, NY	Syracuse, NY	0.079	0.077	0.082	0.080	0.081
Westfield, NY	Chautauqua County, NY	0.085	0.087	0.089	0.088	0.089

White Plains, NY	Westchester County, NY	0.094	0.091	0.098	0.092	0.092
Whiteface, NY	Essex County, NY	0.086	0.081	0.081	0.081	0.083
Williamson, NY	Wayne County, NY	0.083	0.080	0.086	0.081	0.081
Georgetown, NY	Madison County, NY	0.077	0.077	0.079	0.078	0.078
Central Valley, NY	Orange County, NY	0.091	0.089	0.090	0.086	0.087

Table A-18. Moore et al. (2008)

city_name	census_area_name	dv1980_1982	dv1981_1983	dv1982_1984	dv1983_1985	dv1984_1986	dv1985_1987	dv1986_1988	dv1987_1989	dv1988_1990
Long Beach, CA	Los Angeles County, CA	0.210	0.204	0.225	0.226	0.222	0.217	0.205	0.192	0.186
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.210	0.204	0.225	0.226	0.222	0.217	0.205	0.192	0.186
Merced, CA	Merced, CA									
Pomona, CA	Los Angeles County, CA	0.210	0.204	0.225	0.226	0.222	0.217	0.205	0.192	0.186
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.217	0.210	0.209	0.211	0.210	0.200	0.188	0.188	0.185
San Bernadino, CA	San Bernardino County, CA	0.217	0.210	0.209	0.211	0.210	0.200	0.188	0.188	0.185
Santa Ana, CA	Orange County, CA	0.155	0.166	0.163	0.166	0.157	0.152	0.142	0.141	0.138
Santa Clarita, CA	Los Angeles County, CA	0.210	0.204	0.225	0.226	0.222	0.217	0.205	0.192	0.186

Table A-18. Continued

city_name	census_area name	dv1989_1991	dv1990_1992	dv1991_1993	dv1992_1994	dv1993_1995	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000
Long Beach, CA	Los Angeles County, CA	0.179	0.177	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115
Los Angeles,	Los Angeles-Long Beach-	0.179	0.177	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115

CA	Santa Ana, CA										
Merced, CA	Merced, CA			0.098	0.098	0.100	0.102	0.094	0.096	0.097	0.106
Pomona, CA	Los Angeles County, CA	0.179	0.177	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.182	0.180	0.177	0.171	0.165	0.161	0.148	0.154	0.147	0.146
San Bernadino, CA	San Bernardino County, CA	0.182	0.180	0.177	0.171	0.165	0.161	0.148	0.154	0.147	0.146
Santa Ana, CA	Orange County, CA	0.127	0.120	0.114	0.117	0.107	0.100	0.088	0.088	0.084	0.084
Santa Clarita, CA	Los Angeles County, CA	0.179	0.177	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115

Table A-19. Jerrett et al. (2009)

city_name	**census_area_name**	**dv1977_1979**	**dv1978_1980**	**dv1979_1981**	**dv1980_1982**	**dv1981_1983**	**dv1982_1984**	**dv1983_1985**
Charleston, SC	Charleston-North Charleston-Summerville, SC		0.088	0.08	0.074	0.072	0.076	0.077
Charleston, WV	Charleston, WV	0.077	0.077	0.075	0.078	0.082	0.086	0.087
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC				0.1	0.099	0.097	0.098
Chattanooga, TN	Chattanooga, TN-GA		0.09	0.094	0.097	0.097	0.093	0.091
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.112	0.112	0.1	0.096	0.103	0.103	0.106

Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.119	0.109	0.104	0.101	0.1	0.1	0.097
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.108	0.101	0.094	0.092	0.096	0.098	0.1
Colorado Springs, CO	Colorado Springs, CO				0.06	0.06	0.063	0.062
Columbia, SC	Columbia, SC	0.078	0.109	0.091	0.087	0.088	0.084	0.082
Columbus, OH	Columbus, OH	0.098	0.103	0.091	0.093	0.092	0.094	0.093
Corpus Christi, TX	Corpus Christi, TX					0.079	0.086	0.084
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX		0.109	0.111	0.108	0.108	0.11	0.118
Dayton, OH	Dayton, OH	0.122	0.108	0.102	0.103	0.104	0.1	0.092
Denver, CO	Denver-Aurora-Broomfield, CO	0.091	0.089	0.088	0.084	0.089	0.087	0.082
Detroit, MI	Detroit-Warren-Livonia, MI	0.101	0.097	0.092	0.097	0.103	0.098	0.094
El Paso, TX	El Paso, TX					0.079	0.084	0.089
Evansville, IN	Evansville, IN-KY					0.096	0.094	0.092
Flint, MI	Flint, MI	0.082	0.086	0.082	0.085	0.088	0.087	0.08
Fresno, CA	Fresno, CA	0.101	0.103	0.123	0.123	0.116	0.114	0.11
Ft. Lauderdale, FL	Broward County, FL			0.074	0.075	0.071	0.069	0.069
Gary, IN	Lake County, IN	0.105	0.098	0.087	0.09	0.095	0.097	0.095
Greely, CO	Greeley, CO					0.059	0.071	0.069
Greensboro, NC	Greensboro-High Point, NC			0.086	0.09	0.087	0.089	0.087
Greenville, SC	Greenville-Mauldin-Easley, SC			0.094	0.094	0.093	0.089	0.088
Harrisburg, PA	Harrisburg-Carlisle, PA		0.095	0.087	0.096	0.098	0.1	0.098

Houston, TX	Houston-Sugar Land-Baytown, TX	0.099	0.14	0.132	0.124	0.139	0.128	0.124
Huntington, WV	Huntington-Ashland, WV-KY-OH			0.088	0.09	0.095	0.097	0.097
Indianapolis, IN	Indianapolis-Carmel, IN	0.076	0.09	0.087	0.103	0.101	0.101	0.096
Jackson, MS	Jackson, MS	0.098	0.09	0.084	0.081	0.079	0.076	0.078
Jacksonville, FL	Jacksonville, FL	0.086	0.086	0.087	0.085	0.08	0.076	0.075
Jersey City, NJ	Hudson County, NJ							0.111
Johnstown, PA	Johnstown, PA	0.1	0.107	0.1	0.097	0.087	0.087	0.087
Kansas City, MO	Kansas City, MO-KS	0.074	0.081	0.097	0.089	0.089	0.094	0.096
Kenosha, WI	Kenosha County, WI				0.095	0.103	0.097	0.1
Knoxville, TN	Knoxville, TN					0.09	0.088	0.083
Lancaster, PA	Lancaster, PA	0.088	0.096	0.092	0.096	0.101	0.1	0.098
Lansing, MI	Lansing-East Lansing, MI			0.086	0.073	0.08	0.08	0.076
Las Vegas, NV	Las Vegas-Paradise, NV			0.074	0.085	0.085	0.08	0.079
Lexington, KY	Lexington-Fayette, KY		0.091	0.087	0.085	0.086	0.091	0.092
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.098	0.107	0.1	0.085	0.082	0.083	0.087
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.174	0.248	0.229	0.21	0.204	0.225	0.226
Madison, WI	Madison, WI	0.096	0.102	0.095	0.088	0.078	0.076	0.078
Memphis, TN	Memphis, TN-MS-AR	0.102	0.103	0.085	0.096	0.097	0.092	0.092
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.114	0.11	0.11	0.106	0.111	0.104	0.105
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI			0.08	0.079	0.076	0.073	0.073

Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.092	0.085	0.077	0.083	0.083	0.09	0.095
Nassau, NY	Nassau County, NY							
New Haven, CT	New Haven-Milford, CT	0.135	0.127	0.118	0.121	0.13	0.136	0.128
New Orleans, LA	New Orleans-Metairie-Kenner, LA		0.087	0.087	0.085	0.083	0.099	0.089
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.124	0.118	0.116	0.12	0.121	0.12	0.128
Newark, NJ	Essex County, NJ							
Norfolk, VA	Virginia Beach-Norfolk-Newport News, VA-NC	0.1	0.101	0.091	0.091	0.096	0.095	0.093
Oklahoma City, OK	Oklahoma City, OK	0.089	0.093	0.084	0.084	0.087	0.085	0.089
Orlando, FL	Orlando-Kissimmee, FL	0.078	0.08	0.077	0.078	0.078	0.078	0.074
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.126	0.136	0.127	0.125	0.114	0.122	0.119
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.076	0.078	0.081	0.085	0.09	0.093	0.096
Pittsburgh, PA	Pittsburgh, PA	0.111	0.123	0.109	0.104	0.106	0.099	0.099
Portland, ME	Portland-South Portland-Biddeford, ME					0.107	0.11	0.116
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.084	0.088	0.082	0.082	0.081	0.074	0.076
Portsmouth, NH	Rockingham County, NH				0.097	0.094	0.082	0.077

Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.121	0.124	0.124	0.121	0.115	0.121	0.121
Racine, WI	Racine, WI	0.093	0.112	0.108	0.109	0.113	0.112	0.111
Raleigh, NC	Raleigh-Cary, NC			0.088	0.091	0.089	0.085	0.087
Reading, PA	Reading, PA	0.098	0.105	0.109	0.114	0.106	0.102	0.1
Richmond, VA	Richmond, VA				0.084	0.098	0.098	0.099
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.239	0.245	0.235	0.217	0.21	0.209	0.211
Roanoke, VA	Roanoke, VA					0.083	0.086	0.084
Rochester, NY	Rochester, NY	0.093	0.091	0.084	0.086	0.09	0.091	0.09
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA			0.102	0.112	0.114	0.115	0.118
Salinas, CA	Salinas, CA		0.066	0.061	0.061	0.057	0.065	0.074
San Antonio, TX	San Antonio, TX		0.086	0.089	0.092	0.09	0.087	0.086
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.115	0.118	0.141	0.137	0.13	0.126	0.132
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.085	0.092	0.086	0.091	0.089	0.091	0.096
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.093	0.101	0.102	0.094	0.095	0.1	0.103
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.088	0.081	0.084	0.085	0.08	0.069	0.069
Shreveport, LA	Shreveport-Bossier City, LA				0.08	0.081	0.077	0.079
South Bend, IN	South Bend-Mishawaka, IN-MI		0.093	0.093	0.102	0.095	0.09	0.088
Springfield, MA	Springfield, MA						0.1	0.112
St Louis, MO	St. Louis, MO-IL	0.122	0.117	0.109	0.101	0.107	0.111	0.113

Steubenville, OH	Weirton-Steubenville, WV-OH	0.098	0.099	0.088	0.083	0.073	0.071	0.064
Syracuse, NY	Syracuse, NY							
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.088	0.081	0.084	0.085	0.08	0.069	0.069
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.09	0.088	0.087	0.087	0.089	0.09	0.087
Toledo, OH	Toledo, OH	0.108	0.104	0.102	0.1	0.101	0.09	0.087
Trenton, NJ	Trenton-Ewing, NJ					0.116	0.117	0.12
Tucson, AZ	Tucson, AZ	0.07	0.074	0.074	0.082	0.081	0.082	0.079
Vallejo, CA	Vallejo-Fairfield, CA	0.068	0.069	0.063	0.074	0.072	0.074	0.075
Ventura, CA	Ventura County, CA	0.13	0.13	0.109	0.104	0.098	0.112	0.113
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.112	0.101	0.101	0.113	0.113	0.112	0.11
Wichita, KS	Wichita, KS				0.074	0.078	0.079	0.081
Wilmington, DE	New Castle County, DE		0.083	0.088	0.093	0.106	0.112	0.116
Worcester, MA	Worcester, MA			0.102		0.092	0.096	0.099
York, PA	York-Hanover, PA	0.105	0.107	0.098	0.096	0.097	0.098	0.099
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA					0.097	0.093	0.089

Table A-19. Continued

city_name	census_area_name	dv1984_1986	dv1985_1987	dv1986_1988	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992
Charleston, SC	Charleston-North Charleston-Summerville, SC	0.081	0.085	0.09	0.087	0.083	0.076	0.074
Charleston, WV	Charleston, WV	0.084	0.087	0.099	0.094	0.089	0.081	0.074
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.094	0.102	0.112	0.104	0.101	0.092	0.091
Chattanooga, TN	Chattanooga, TN-GA	0.089	0.089	0.094	0.092	0.09	0.086	0.083
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.098	0.101	0.112	0.114	0.114	0.104	0.099
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.093	0.098	0.109	0.106	0.107	0.102	0.095
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.094	0.092	0.104	0.105	0.104	0.093	0.09
Colorado Springs, CO	Colorado Springs, CO	0.062	0.06	0.061	0.063	0.065	0.066	0.063
Columbia, SC	Columbia, SC	0.081	0.084	0.069	0.091	0.091	0.081	0.084
Columbus, OH	Columbus, OH	0.089	0.089	0.093	0.097	0.095	0.089	0.092
Corpus Christi, TX	Corpus Christi, TX	0.078	0.083	0.086	0.089	0.085	0.079	0.077
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.113	0.108	0.101	0.1	0.105	0.105	0.099
Dayton, OH	Dayton, OH	0.088	0.09	0.095	0.096	0.092	0.086	0.082
Denver, CO	Denver-Aurora-Broomfield, CO	0.079	0.081	0.088	0.087	0.086	0.08	0.074
Detroit, MI	Detroit-Warren-Livonia, MI	0.089	0.093	0.1	0.099	0.099	0.096	0.091
El Paso, TX	El Paso, TX	0.096	0.096	0.092	0.088	0.083	0.08	0.079

Evansville, IN	Evansville, IN-KY	0.09	0.094	0.099	0.1	0.099	0.091	0.088
Flint, MI	Flint, MI	0.077	0.079	0.09	0.091	0.09	0.085	0.081
Fresno, CA	Fresno, CA	0.117	0.118	0.121	0.115	0.11	0.108	0.108
Ft. Lauderdale, FL	Broward County, FL	0.073	0.073	0.077	0.076	0.079	0.075	0.073
Gary, IN	Lake County, IN	0.088	0.087	0.093	0.096	0.092	0.087	0.083
Greely, CO	Greeley, CO	0.067	0.068	0.07	0.072	0.074	0.075	0.072
Greensboro, NC	Greensboro-High Point, NC	0.089	0.089	0.1	0.097	0.1	0.088	0.085
Greenville, SC	Greenville-Mauldin-Easley, SC	0.085	0.089	0.091	0.09	0.085	0.075	0.075
Harrisburg, PA	Harrisburg-Carlisle, PA	0.091	0.096	0.103	0.103	0.098	0.094	0.091
Houston, TX	Houston-Sugar Land-Baytown, TX	0.127	0.127	0.118	0.117	0.119	0.119	0.116
Huntington, WV	Huntington-Ashland, WV-KY-OH	0.09	0.093	0.099	0.103	0.103	0.092	0.096
Indianapolis, IN	Indianapolis-Carmel, IN	0.09	0.091	0.096	0.098	0.095	0.091	0.089
Jackson, MS	Jackson, MS	0.077	0.076	0.077	0.075	0.079	0.076	0.076
Jacksonville, FL	Jacksonville, FL	0.075	0.081	0.084	0.086	0.084	0.081	0.079
Jersey City, NJ	Hudson County, NJ	0.104	0.109	0.117	0.118	0.115	0.107	0.104
Johnstown, PA	Johnstown, PA	0.085	0.087	0.097	0.097	0.093	0.086	0.083
Kansas City, MO	Kansas City, MO-KS	0.089	0.084	0.088	0.088	0.086	0.082	0.083
Kenosha, WI	Kenosha County, WI	0.089	0.098	0.111	0.114	0.114	0.104	0.099
Knoxville, TN	Knoxville, TN	0.094	0.087	0.097	0.093	0.094	0.086	0.089
Lancaster, PA	Lancaster, PA	0.09	0.091	0.097	0.097	0.093	0.09	0.09
Lansing, MI	Lansing-East Lansing, MI	0.073	0.077	0.09	0.089	0.087	0.081	0.082
Las Vegas, NV	Las Vegas-Paradise, NV	0.08	0.083	0.082	0.081	0.078	0.078	0.076
Lexington, KY	Lexington-Fayette,	0.092	0.094	0.099	0.099	0.096	0.085	0.078

	KY							
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.087	0.089	0.09	0.085	0.082	0.079	0.08
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.222	0.217	0.205	0.192	0.186	0.179	0.177
Madison, WI	Madison, WI	0.075	0.079	0.09	0.091	0.079	0.081	0.079
Memphis, TN	Memphis, TN-MS-AR	0.093	0.096	0.1	0.095	0.095	0.089	0.091
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.095	0.105	0.113	0.117	0.105	0.101	0.095
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.071	0.073	0.077	0.08	0.079	0.075	0.071
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.097	0.098	0.106	0.104	0.104	0.096	0.096
Nassau, NY	Nassau County, NY							
New Haven, CT	New Haven-Milford, CT	0.115	0.108	0.112	0.113	0.116	0.116	0.113
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.089	0.088	0.094	0.09	0.085	0.077	0.08
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.119	0.122	0.129	0.129	0.128	0.122	0.116
Newark, NJ	Essex County, NJ		0.086	0.092	0.105	0.098	0.088	0.086
Norfolk, VA	Virginia Beach-Norfolk-Newport News, VA-NC	0.087	0.089	0.095	0.093	0.091	0.084	0.086
Oklahoma City, OK	Oklahoma City, OK	0.087	0.084	0.085	0.087	0.087	0.086	0.084
Orlando, FL	Orlando-Kissimmee, FL	0.075	0.078	0.082	0.082	0.082	0.08	0.079

Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.119	0.123	0.132	0.123	0.12	0.113	0.107
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.09	0.086	0.081	0.077	0.082	0.083	0.091
Pittsburgh, PA	Pittsburgh, PA	0.09	0.093	0.104	0.107	0.098	0.092	0.088
Portland, ME	Portland-South Portland-Biddeford, ME	0.112	0.112	0.112	0.117	0.115	0.109	0.105
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.085	0.086	0.085	0.077	0.085	0.082	0.091
Portsmouth, NH	Rockingham County, NH	0.078	0.087	0.094	0.104	0.1	0.098	0.092
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.114	0.107	0.113	0.108	0.108	0.107	0.105
Racine, WI	Racine, WI	0.102	0.107	0.12	0.124	0.11	0.098	0.088
Raleigh, NC	Raleigh-Cary, NC	0.087	0.092	0.104	0.099	0.093	0.089	0.086
Reading, PA	Reading, PA	0.092	0.096	0.104	0.105	0.102	0.096	0.094
Richmond, VA	Richmond, VA	0.095	0.097	0.104	0.103	0.097	0.087	0.087
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.21	0.2	0.188	0.188	0.185	0.182	0.18
Roanoke, VA	Roanoke, VA	0.083	0.087	0.095	0.092	0.085	0.076	0.074
Rochester, NY	Rochester, NY	0.09	0.091	0.099	0.099	0.095	0.092	0.09
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.118	0.114	0.114	0.114	0.107	0.105	0.105
Salinas, CA	Salinas, CA	0.071	0.071	0.068	0.072	0.07	0.07	0.071
San Antonio, TX	San Antonio, TX	0.085	0.083	0.084	0.085	0.085	0.082	0.079
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.125	0.124	0.121	0.125	0.129	0.125	0.118

San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.093	0.089	0.087	0.089	0.087	0.084	0.082
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.097	0.092	0.092	0.097	0.088	0.082	0.083
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.075	0.077	0.074	0.076	0.079	0.078	0.086
Shreveport, LA	Shreveport-Bossier City, LA	0.082	0.085	0.086	0.087	0.088	0.084	0.086
South Bend, IN	South Bend-Mishawaka, IN-MI	0.081	0.088	0.092	0.093	0.087	0.08	0.083
Springfield, MA	Springfield, MA	0.102	0.096	0.106	0.109	0.115	0.107	0.105
St Louis, MO	St. Louis, MO-IL	0.103	0.102	0.114	0.111	0.102	0.098	0.098
Steubenville, OH	Weirton-Steubenville, WV-OH	0.062	0.069	0.086	0.09	0.088	0.085	0.083
Syracuse, NY	Syracuse, NY		0.083	0.096	0.092	0.088	0.083	0.083
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.075	0.077	0.074	0.076	0.079	0.078	0.086
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.088	0.091	0.09	0.086	0.085	0.079	0.081
Toledo, OH	Toledo, OH	0.079	0.083	0.097	0.102	0.099	0.086	0.082
Trenton, NJ	Trenton-Ewing, NJ	0.11	0.114	0.124	0.123	0.117	0.111	0.112
Tucson, AZ	Tucson, AZ	0.076	0.074	0.069	0.071	0.075	0.074	0.075
Vallejo, CA	Vallejo-Fairfield, CA	0.073	0.077	0.079	0.082	0.075	0.074	0.074
Ventura, CA	Ventura County, CA	0.116	0.114	0.131	0.132	0.13	0.126	0.117
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.104	0.11	0.116	0.115	0.107	0.1	0.1
Wichita, KS	Wichita, KS	0.077	0.076	0.08	0.08	0.081	0.075	0.074
Wilmington, DE	New Castle County,	0.102	0.106	0.114	0.114	0.115	0.107	0.101

	DE							
Worcester, MA	Worcester, MA	0.091	0.086	0.088	0.091	0.091	0.089	0.091
York, PA	York-Hanover, PA	0.093	0.094	0.1	0.099	0.099	0.094	0.093
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.085	0.089	0.101	0.103	0.099	0.09	0.091

Table A-19. Continued

city_name	census_area_name	dv1991_1993	dv1992_1994	dv1993_1995	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000
Charleston, SC	Charleston-North Charleston-Summerville, SC	0.074	0.075	0.074	0.072	0.076	0.077	0.079	0.082
Charleston, WV	Charleston, WV	0.069	0.064	0.076	0.081	0.081	0.081	0.09	0.093
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.091	0.092	0.094	0.094	0.097	0.103	0.104	0.104
Chattanooga, TN	Chattanooga, TN-GA	0.082	0.086	0.091	0.091	0.09	0.093	0.094	0.097
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.1	0.093	0.099	0.097	0.096	0.091	0.095	0.093
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.091	0.091	0.098	0.099	0.095	0.092	0.095	0.094
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.092	0.093	0.098	0.1	0.099	0.098	0.099	0.095
Colorado Springs, CO	Colorado Springs, CO	0.062	0.061	0.061	0.059	0.056	0.059	0.062	0.065
Columbia, SC	Columbia, SC	0.085	0.087	0.086	0.081	0.08	0.087	0.092	0.096
Columbus, OH	Columbus, OH	0.09	0.086	0.09	0.092	0.092	0.093	0.097	0.095
Corpus Christi,	Corpus Christi,	0.078	0.079	0.082	0.083	0.083	0.08	0.081	0.083

TX	TX								
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.095	0.096	0.106	0.104	0.104	0.098	0.101	0.102
Dayton, OH	Dayton, OH	0.084	0.086	0.092	0.093	0.091	0.093	0.093	0.09
Denver, CO	Denver-Aurora-Broomfield, CO	0.071	0.074	0.081	0.081	0.079	0.084	0.083	0.086
Detroit, MI	Detroit-Warren-Livonia, MI	0.089	0.088	0.093	0.094	0.092	0.093	0.095	0.089
El Paso, TX	El Paso, TX	0.078	0.081	0.084	0.089	0.08	0.082	0.078	0.08
Evansville, IN	Evansville, IN-KY	0.087	0.089	0.094	0.095	0.093	0.093	0.094	0.091
Flint, MI	Flint, MI	0.077	0.071	0.075	0.082	0.084	0.086	0.089	0.086
Fresno, CA	Fresno, CA	0.111	0.107	0.108	0.107	0.111	0.115	0.113	0.111
Ft. Lauderdale, FL	Broward County, FL	0.076	0.079	0.074	0.069	0.069	0.072	0.075	0.075
Gary, IN	Lake County, IN	0.08	0.077	0.084	0.091	0.095	0.09	0.091	0.088
Greely, CO	Greeley, CO	0.068	0.066	0.068	0.071	0.07	0.071	0.071	0.071
Greensboro, NC	Greensboro-High Point, NC	0.083	0.084	0.088	0.086	0.085	0.089	0.092	0.094
Greenville, SC	Greenville-Mauldin-Easley, SC	0.082	0.081	0.082	0.081	0.083	0.087	0.09	0.09
Harrisburg, PA	Harrisburg-Carlisle, PA	0.091	0.089	0.092	0.087	0.088	0.088	0.094	0.093
Houston, TX	Houston-Sugar Land-Baytown, TX	0.104	0.11	0.114	0.116	0.117	0.116	0.118	0.112
Huntington, WV	Huntington-Ashland, WV-KY-OH	0.092	0.09	0.096	0.091	0.088	0.092	0.095	0.094
Indianapolis, IN	Indianapolis-Carmel, IN	0.087	0.09	0.094	0.098	0.097	0.098	0.097	0.095
Jackson, MS	Jackson, MS	0.074	0.075	0.076	0.077	0.077	0.08	0.081	0.083

Jacksonville, FL	Jacksonville, FL	0.079	0.081	0.08	0.078	0.081	0.088	0.088	0.085
Jersey City, NJ	Hudson County, NJ	0.103	0.096	0.1	0.095	0.098	0.093	0.1	0.092
Johnstown, PA	Johnstown, PA	0.084	0.08	0.085	0.085	0.088	0.091	0.093	0.091
Kansas City, MO	Kansas City, MO-KS	0.082	0.082	0.09	0.092	0.094	0.093	0.091	0.089
Kenosha, WI	Kenosha County, WI	0.1	0.093	0.099	0.097	0.096	0.09	0.095	0.093
Knoxville, TN	Knoxville, TN	0.088	0.089	0.093	0.093	0.095	0.1	0.104	0.104
Lancaster, PA	Lancaster, PA	0.093	0.091	0.096	0.093	0.096	0.096	0.101	0.097
Lansing, MI	Lansing-East Lansing, MI	0.081	0.079	0.082	0.084	0.083	0.08	0.082	0.082
Las Vegas, NV	Las Vegas-Paradise, NV	0.075	0.079	0.079	0.08	0.079	0.08	0.077	0.085
Lexington, KY	Lexington-Fayette, KY	0.077	0.079	0.087	0.087	0.085	0.085	0.087	0.085
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.078	0.077	0.08	0.08	0.081	0.08	0.082	0.087
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.177	0.168	0.156	0.145	0.135	0.133	0.118	0.115
Madison, WI	Madison, WI	0.073	0.072	0.072	0.08	0.081	0.078	0.08	0.078
Memphis, TN	Memphis, TN-MS-AR	0.09	0.09	0.091	0.094	0.095	0.093	0.095	0.097
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.09	0.084	0.092	0.097	0.098	0.093	0.097	0.092
Minneapolis, MN	Minneapolis-St. Paul-Bloomington, MN-WI	0.07	0.07	0.072	0.074	0.072	0.07	0.074	0.074
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.095	0.096	0.099	0.099	0.099	0.101	0.102	0.1
Nassau, NY	Nassau County, NY								
New Haven,	New Haven-	0.108	0.097	0.105	0.101	0.107	0.1	0.103	0.096

CT	Milford, CT								
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.081	0.086	0.084	0.085	0.083	0.084	0.086	0.091
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.108	0.1	0.106	0.104	0.108	0.104	0.107	0.107
Newark, NJ	Essex County, NJ	0.084	0.081	0.088	0.088	0.092	0.088	0.093	0
Norfolk, VA	Virginia Beach-Norfolk-Newport News, VA-NC	0.09	0.088	0.087	0.083	0.087	0.09	0.094	0.089
Oklahoma City, OK	Oklahoma City, OK	0.081	0.081	0.084	0.085	0.083	0.085	0.086	0.084
Orlando, FL	Orlando-Kissimmee, FL	0.078	0.082	0.079	0.079	0.078	0.084	0.085	0.085
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.106	0.099	0.104	0.101	0.11	0.107	0.11	0.106
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.088	0.086	0.089	0.09	0.092	0.091	0.088	0.088
Pittsburgh, PA	Pittsburgh, PA	0.095	0.096	0.105	0.103	0.105	0.099	0.101	0.096
Portland, ME	Portland-South Portland-Biddeford, ME	0.102	0.095	0.096	0.092	0.096	0.092	0.092	0.084
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.076	0.078	0.071	0.083	0.078	0.08	0.071	0.072
Portsmouth, NH	Rockingham County, NH	0.096	0.093	0.096	0.094	0.095	0.091	0.09	0.08
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.099	0.092	0.097	0.094	0.097	0.09	0.092	0.088

Racine, WI	Racine, WI	0.086	0.082	0.088	0.089	0.092	0.088	0.091	0.085
Raleigh, NC	Raleigh-Cary, NC	0.087	0.086	0.087	0.087	0.089	0.096	0.103	0.101
Reading, PA	Reading, PA	0.094	0.086	0.088	0.089	0.092	0.091	0.096	0.092
Richmond, VA	Richmond, VA	0.091	0.092	0.093	0.087	0.09	0.092	0.099	0.091
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.177	0.171	0.165	0.161	0.148	0.154	0.147	0.146
Roanoke, VA	Roanoke, VA	0.077	0.08	0.082	0.078	0.078	0.085	0.09	0.089
Rochester, NY	Rochester, NY	0.088	0.08	0.085	0.081	0.083	0.08	0.086	0.081
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.11	0.104	0.106	0.106	0.099	0.103	0.103	0.107
Salinas, CA	Salinas, CA	0.069	0.07	0.069	0.067	0.065	0.066	0.062	0.064
San Antonio, TX	San Antonio, TX	0.079	0.082	0.087	0.087	0.087	0.085	0.088	0.086
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.112	0.109	0.108	0.104	0.099	0.102	0.099	0.1
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.081	0.082	0.087	0.093	0.09	0.089	0.086	0.087
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.08	0.08	0.083	0.088	0.085	0.086	0.082	0.082
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.077	0.074	0.071	0.076	0.078	0.081	0.074	0.075
Shreveport, LA	Shreveport-Bossier City, LA	0.085	0.086	0.083	0.08	0.082	0.084	0.089	0.092
South Bend, IN	South Bend-Mishawaka, IN-MI	0.089	0.087	0.089	0.094	0.094	0.092	0.092	0.088
Springfield, MA	Springfield, MA	0.1	0.095	0.094	0.092	0.097	0.096	0.099	0.089
St Louis, MO	St. Louis, MO-IL	0.091	0.091	0.098	0.104	0.1	0.095	0.095	0.094

Steubenville, OH	Weirton-Steubenville, WV-OH	0.085	0.08	0.087	0.086	0.085	0.084	0.087	0.083
Syracuse, NY	Syracuse, NY	0.087	0.081	0.082	0.079	0.079	0.077	0.082	0.08
Tacoma, WA	Seattle-Tacoma-Bellevue, WA	0.077	0.074	0.071	0.076	0.078	0.081	0.074	0.075
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.08	0.08	0.08	0.081	0.082	0.088	0.09	0.088
Toledo, OH	Toledo, OH	0.085	0.086	0.09	0.091	0.089	0.089	0.086	0.084
Trenton, NJ	Trenton-Ewing, NJ	0.111	0.105	0.104	0.1	0.101	0.097	0.104	0.102
Tucson, AZ	Tucson, AZ	0.077	0.078	0.081	0.079	0.079	0.077	0.075	0.073
Vallejo, CA	Vallejo-Fairfield, CA	0.074	0.073	0.077	0.079	0.078	0.082	0.085	0.085
Ventura, CA	Ventura County, CA	0.115	0.112	0.117	0.119	0.115	0.112	0.106	0.105
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.101	0.096	0.098	0.094	0.1	0.101	0.106	0.101
Wichita, KS	Wichita, KS	0.068	0.065	0.07	0.072	0.074	0.078	0.08	0.08
Wilmington, DE	New Castle County, DE	0.098	0.099	0.103	0.098	0.099	0.095	0.1	0.097
Worcester, MA	Worcester, MA		0.095	0.095	0.089	0.087	0.087	0.094	0.088
York, PA	York-Hanover, PA	0.091	0.085	0.086	0.083	0.087	0.09	0.094	0.093
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.091	0.089	0.091	0.092	0.093	0.096	0.096	0.092

Table A-20. Salam et al. (2009)

city_name	census_area_name	dv1992_1994	dv1993_1995	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000	dv1999_2001	dv2000_2002	dv2001_2003	dv2002_2004	dv2003_2005
Long Beach, CA	Los Angeles County, CA	0.168	0.156	0.145	0.135	0.133	0.118	0.115	0.105	0.113	0.126	0.125	0.120
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.171	0.165	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131	0.127	0.127
Alpine, CA	San Diego County, CA	0.109	0.108	0.104	0.099	0.102	0.099	0.100	0.094	0.095	0.093	0.089	0.086
Atascadero, CA	San Luis Obispo County, CA												
Lake Elsinore, CA	Riverside County, CA	0.157	0.149	0.140	0.129	0.127	0.124	0.114	0.111	0.113	0.118	0.117	0.119
Lake Gregory, CA	San Bernardino County, CA	0.171	0.165	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131	0.127	0.127
Lompoc, CA	Santa Barbara County, CA	0.092	0.090	0.094	0.089	0.087	0.082	0.081	0.080	0.082	0.084	0.082	0.078
Mira Loma, CA	Riverside County, CA	0.157	0.149	0.140	0.129	0.127	0.124	0.114	0.111	0.113	0.118	0.117	0.119
San Dimas, CA	Los Angeles County, CA	0.168	0.156	0.145	0.135	0.133	0.118	0.115	0.105	0.113	0.126	0.125	0.120
Santa Maria, CA	Santa Barbara County, CA	0.092	0.090	0.094	0.089	0.087	0.082	0.081	0.080	0.082	0.084	0.082	0.078
Upland, CA	San Bernardino County, CA	0.171	0.165	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131	0.127	0.127

Table A-21. Meng et al. (2010)

city_name	census_area_name	dv1997_1999	dv1998_2000	dv1999_2001	dv2000_2002
Bakersfield, CA	Bakersfield, CA	0.111	0.111	0.109	0.112
Fresno, CA	Fresno, CA	0.113	0.111	0.108	0.115
Kings Co., CA	Hanford-Corcoran, CA	0.099	0.102	0.098	0.099
Madera, CA	Madera-Chowchilla, CA	0.084	0.090	0.088	0.091
Modesto, CA	Modesto, CA	0.095	0.096	0.091	0.095
San Joaquin, CA	Stockton, CA	0.087	0.088	0.084	0.081
Tulare, CA	Visalia-Porterville, CA	0.102	0.102	0.104	0.105

Table A-22. Zanobetti and Schwartz (2011)

city_name	census_area_name	dv1985_1987	dv1986_1988	dv1987_1989	dv1988_1990	dv1989_1991	dv1990_1992	dv1991_1993	dv1992_1994	dv1993_1995
Honolulu, HI	Honolulu, HI	0.036	0.026	0.020	0.018					
Des Moines, IA	Des Moines-West Des Moines, IA	0.052								
Colorado Springs, CO	Colorado Springs, CO	0.060	0.061	0.063		0.066	0.063	0.062	0.061	0.061
Cedar Rapids, IA	Cedar Rapids, IA	0.064	0.072	0.076	0.070		0.063	0.064	0.064	0.062
Spokane, WA	Spokane, WA									0.064
Palm Beach, FL	Palm Beach County, FL	0.069	0.071	0.071	0.070	0.064	0.061	0.067	0.068	0.073
Eugene, OR	Eugene-Springfield, OR	0.079	0.079	0.077						
Medford, OR	Medford, OR	0.072	0.074	0.071	0.069					
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.075	0.077	0.077	0.078	0.072	0.071	0.065	0.062	0.062
Ft. Lauderdale,	Broward County, FL	0.073	0.077	0.076	0.079	0.075	0.073	0.076	0.079	0.074

FL										
Albuquerque, NM	Albuquerque, NM	0.071	0.071	0.073	0.073	0.071	0.071	0.069	0.070	0.071
Reno, NV	Reno-Sparks, NV				0.081	0.080	0.077	0.069	0.069	0.069
Tucson, AZ	Tucson, AZ	0.068	0.066	0.068	0.074	0.069	0.072	0.077	0.078	0.081
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.086	0.085	0.077	0.085	0.082	0.091	0.076	0.078	0.058
Tallahassee, FL	Tallahassee, FL									
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.077	0.071	0.076	0.079	0.078	0.086	0.077	0.074	0.071
Boulder, CO	Boulder, CO	0.082	0.084	0.082	0.078	0.076	0.073	0.073	0.071	0.072
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.082	0.084	0.083	0.079	0.075	0.073	0.076	0.080	0.080
Provo/Orem, UT	Provo-Orem, UT	0.080	0.079	0.076					0.069	0.068
Charleston, SC	Charleston-North Charleston-Summerville, SC	0.085	0.090	0.087	0.083	0.076				0.069
Pinellas, FL	Pinellas County, FL	0.085	0.085	0.084	0.085	0.079	0.075	0.072	0.072	0.072
Davenport, IA	Davenport-Moline-Rock Island, IA-IL	0.077	0.083	0.086	0.083	0.081	0.081	0.081	0.079	0.077
Columbus, GA	Columbus, GA-AL	0.085	0.086	0.079	0.075	0.071	0.073		0.077	0.078
Jacksonville, FL	Jacksonville, FL	0.081	0.084	0.086	0.084	0.081	0.079	0.079	0.081	0.080
Orlando, FL	Orlando-Kissimmee, FL	0.078	0.082	0.082	0.082	0.080	0.079	0.078	0.082	0.079
Las Vegas, NV	Las Vegas-Paradise, NV	0.083	0.082	0.081	0.078	0.078	0.076	0.075	0.079	0.079
Denver, CO	Denver-Aurora-Broomfield, CO	0.081	0.088	0.087	0.086	0.080	0.074	0.071	0.074	0.081
El Paso, TX	El Paso, TX	0.096	0.092	0.088	0.083	0.080	0.079	0.078	0.081	0.084
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.089	0.090	0.085	0.082	0.079	0.080	0.078	0.077	0.080
Terra Haute,	Terre Haute, IN	0.088	0.082	0.082	0.081	0.087	0.081	0.077	0.079	0.084

IN										
Salt Lake City, UT	Salt Lake City, UT	0.091	0.084	0.085	0.082	0.078	0.075	0.076	0.079	0.082
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.091	0.090	0.086	0.085	0.079	0.081	0.080	0.080	0.080
Oklahoma City, OK	Oklahoma City, OK	0.084	0.085	0.087	0.087	0.086	0.084	0.081	0.081	0.084
Ann Arbor, MI	Ann Arbor, MI	0.078	0.086	0.091	0.088	0.083	0.081	0.080	0.076	0.079
Steubenville, OH	Weirton-Steubenville, WV-OH	0.069	0.086	0.090	0.088	0.085	0.083	0.085	0.080	0.087
San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.092	0.092	0.097	0.088	0.082	0.083	0.080	0.080	0.083
Austin, TX	Austin-Round Rock, TX	0.085	0.084	0.084	0.086	0.084	0.084	0.081	0.082	0.084
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.088	0.094	0.090	0.085	0.077	0.080	0.081	0.086	0.084
San Antonio, TX	San Antonio, TX	0.083	0.084	0.085	0.085	0.082	0.079	0.079	0.082	0.087
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.089	0.087	0.084	0.082	0.081	0.082	0.087
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.089	0.087	0.089	0.087	0.084	0.082	0.081	0.082	0.087
Holland, MI	Holland-Grand Haven, MI					0.097	0.093			
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.086	0.081	0.077	0.082	0.083	0.091	0.088	0.086	0.089
Pensacola, FL	Pensacola-Ferry Pass-Brent, FL	0.087	0.088	0.086	0.087	0.085	0.090	0.085	0.088	0.086
Kansas City, KS	Kansas City, MO-KS	0.084	0.088	0.088	0.086	0.082	0.083	0.082	0.082	0.090
Kansas City, MO	Kansas City, MO-KS	0.084	0.088	0.088	0.086	0.082	0.083	0.082	0.082	0.090
Durham, NC	Durham-Chapel Hill, NC									0.085
Tulsa, OK	Tulsa, OK	0.088	0.092	0.089	0.090	0.087	0.087	0.082	0.083	0.088

Columbia, SC	Columbia, SC	0.084		0.091	0.091	0.081	0.084	0.085	0.087	0.086
Erie, PA	Erie, PA	0.088	0.080		0.096	0.088	0.086	0.085	0.085	0.086
Gary, IN	Lake County, IN	0.087	0.093	0.096	0.092	0.087	0.083	0.080	0.077	0.084
Norfolk, VA	Virginia Beach-Norfolk-Newport News, VA-NC	0.089	0.095	0.093	0.091	0.084	0.086	0.090	0.088	0.087
Worcester, MA	Worcester, MA	0.086	0.088	0.091	0.091	0.089	0.091		0.095	0.095
Scranton, PA	Scranton-Wilkes Barre, PA	0.085	0.094	0.096	0.096	0.092	0.090	0.093	0.087	0.090
Toledo, OH	Toledo, OH	0.083	0.097	0.102	0.099	0.086	0.082	0.085	0.086	0.090
Greensboro, NC	Greensboro-High Point, NC	0.089	0.100	0.097	0.100	0.088	0.085	0.083	0.084	0.088
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.094	0.104	0.105	0.103	0.096	0.090	0.085	0.081	0.086
Dayton, OH	Dayton, OH	0.090	0.095	0.096	0.092	0.086	0.082	0.084	0.086	0.092
Winston-Salem, NC	Winston-Salem, NC	0.083	0.091	0.089	0.093	0.082	0.083	0.086	0.087	0.089
Buffalo, NY	Buffalo-Niagara Falls, NY	0.096	0.103	0.100	0.095	0.089	0.088	0.086	0.083	0.087
Canton, OH	Canton-Massillon, OH	0.088	0.102	0.103	0.101	0.091	0.089	0.089	0.088	0.091
Harrisburg, PA	Harrisburg-Carlisle, PA	0.096	0.103	0.103	0.098	0.094	0.091	0.091	0.089	0.092
Mercer, PA	Mercer County, PA	0.089	0.101	0.103	0.099	0.090	0.089	0.088	0.087	0.089
Raleigh, NC	Raleigh-Cary, NC	0.092	0.104	0.099	0.093	0.089	0.086	0.087	0.086	0.087
Richmond, VA	Richmond, VA	0.097	0.104	0.103	0.097	0.087	0.087	0.091	0.092	0.093
Birmingham, AL	Birmingham-Hoover, AL	0.086	0.104	0.094	0.093	0.084	0.088	0.089	0.092	0.096
Port Arthur, TX	Jefferson County, TX	0.085	0.097	0.093	0.100	0.101	0.100	0.097	0.093	0.094
Detroit, MI	Detroit-Warren-Livonia, MI	0.093	0.100	0.099	0.099	0.096	0.091	0.089	0.088	0.093
Youngstown	Youngstown-Warren-Boardman,	0.089	0.101	0.103	0.099	0.090	0.091	0.091	0.089	0.091

, OH	OH-PA									
Memphis, TN	Memphis, TN-MS-AR	0.096	0.100	0.095	0.095	0.089	0.091	0.090	0.090	0.091
Indianapolis, IN	Indianapolis-Carmel, IN	0.091	0.096	0.098	0.095	0.091	0.089	0.087	0.090	0.094
Knoxville, TN	Knoxville, TN	0.087	0.097	0.093	0.094	0.086	0.089	0.088	0.089	0.093
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.093	0.099	0.105	0.101	0.098	0.092	0.096	0.093	0.096
Baton Rouge, LA	Baton Rouge, LA	0.097	0.098	0.098	0.101	0.099	0.096	0.090	0.087	0.091
Louisville, KY	Louisville/Jefferson County, KY-IN	0.097	0.105	0.098	0.099	0.096	0.092	0.094	0.094	0.100
Allentown, PA	Allentown-Bethlehem-Easton, PA-NJ	0.097	0.105	0.104	0.099	0.094	0.093	0.090	0.084	0.092
Akron, OH	Akron, OH	0.095	0.109	0.112	0.109	0.099	0.093	0.094	0.088	0.090
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.098	0.106	0.104	0.104	0.096	0.096	0.095	0.096	0.099
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.098	0.109	0.106	0.107	0.102	0.095	0.091	0.091	0.098
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.105	0.113	0.117	0.105	0.101	0.095	0.090	0.084	0.092
Pittsburgh, PA	Pittsburgh, PA	0.093	0.104	0.107	0.098	0.092	0.088	0.095	0.096	0.105
St Louis, MO	St. Louis, MO-IL	0.102	0.114	0.111	0.102	0.098	0.098	0.091	0.091	0.098
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.092	0.104	0.105	0.104	0.093	0.090	0.092	0.093	0.098
Springfield, MA	Springfield, MA	0.096	0.106	0.109	0.115	0.107	0.105	0.100	0.095	0.094
Providence, RI	Providence-New Bedford-Fall River, RI-MA	0.107	0.113	0.108	0.108	0.107	0.105	0.099	0.092	0.097
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.102	0.112	0.104	0.101	0.092	0.091	0.091	0.092	0.094

Jersey City, NJ	Hudson County, NJ	0.109	0.117	0.118	0.115	0.107	0.104	0.103	0.096	0.100
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.101	0.112	0.114	0.114	0.104	0.099	0.100	0.093	0.099
Wilmington, DE	New Castle County, DE	0.106	0.114	0.114	0.115	0.107	0.101	0.098	0.099	0.103
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.108	0.101	0.100	0.105	0.105	0.099	0.095	0.096	0.106
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.110	0.116	0.115	0.107	0.100	0.100	0.101	0.096	0.098
Hartford, CT	Hartford-West Hartford-East Hartford, CT	0.099	0.103	0.113	0.116	0.113	0.107	0.106	0.101	0.103
New Haven, CT	New Haven-Milford, CT	0.108	0.112	0.113	0.116	0.116	0.113	0.108	0.097	0.105
Anaheim, CA	Orange County, CA	0.152	0.142	0.141	0.138	0.127	0.120	0.114	0.117	0.107
Sacramento, CA	Sacramento-Arden Arcade-Roseville, CA	0.114	0.114	0.114	0.107	0.105	0.105	0.110	0.104	0.106
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.114	0.124	0.113	0.107	0.104	0.105	0.101	0.101	0.109
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.124	0.121	0.125	0.129	0.125	0.118	0.112	0.109	0.108
Baltimore, MD	Baltimore-Towson, MD	0.119	0.132	0.125	0.115	0.104	0.106	0.107	0.103	0.107
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.123	0.132	0.123	0.120	0.113	0.107	0.106	0.099	0.104
Fresno, CA	Fresno, CA	0.118	0.121	0.115	0.110	0.108	0.108	0.111	0.107	0.108
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.122	0.129	0.129	0.128	0.122	0.116	0.108	0.100	0.106
Houston, TX	Houston-Sugar Land-Baytown, TX	0.127	0.118	0.117	0.119	0.119	0.116	0.104	0.110	0.114
Bakersfield, CA	Bakersfield, CA	0.116	0.118	0.116	0.112	0.118	0.115	0.112	0.111	0.119

Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.217	0.205	0.192	0.186	0.179	0.177	0.177	0.168	0.156
Riverside, CA	Riverside-San Bernardino-Ontario, CA	0.200	0.188	0.188	0.185	0.182	0.180	0.177	0.171	0.165

Table A-22. Continued

city_name	census_area name	dv1994_1996	dv1995_1997	dv1996_1998	dv1997_1999	dv1998_2000	dv1999_2001	dv2000_2002	dv2001_2003	dv2002_2004	dv2003_2005	dv2004_2006
Honolulu, HI	Honolulu, HI			0.045	0.048	0.047	0.044	0.043	0.041	0.042	0.042	0.042
Des Moines, IA	Des Moines-West Des Moines, IA	0.062	0.066	0.061	0.066	0.071	0.067	0.063	0.060	0.057	0.061	0.066
Colorado Springs, CO	Colorado Springs, CO	0.056			0.062	0.065	0.068	0.070	0.073	0.073	0.074	0.073
Cedar Rapids, IA	Cedar Rapids, IA	0.063	0.062	0.060	0.069	0.072	0.073	0.071	0.069	0.067	0.068	0.067
Spokane, WA	Spokane, WA	0.066	0.066	0.068	0.067	0.067	0.068	0.070	0.073	0.073	0.071	0.068
Palm Beach, FL	Palm Beach County, FL	0.069	0.067	0.071	0.076	0.078	0.075	0.068	0.067	0.066		
Eugene, OR	Eugene-Springfield, OR						0.054	0.058	0.070	0.070	0.072	0.069
Medford, OR	Medford, OR							0.069	0.071	0.073	0.069	0.068
Omaha, NE	Omaha-Council Bluffs, NE-IA	0.067	0.067	0.063	0.072	0.074	0.074	0.077	0.076	0.074	0.075	0.075
Ft. Lauderdale, FL	Broward County, FL	0.069	0.069	0.072	0.075	0.075	0.075	0.071	0.068	0.063	0.062	0.066

Albuquerque, NM	Albuquerque, NM	0.074	0.069	0.073	0.071	0.075	0.075	0.075	0.077	0.077	0.077	0.073
Reno, NV	Reno-Sparks, NV	0.072	0.071	0.072	0.072	0.072	0.073	0.073	0.074	0.074	0.071	0.071
Tucson, AZ	Tucson, AZ	0.079	0.079	0.077	0.075	0.073	0.072	0.073	0.073	0.076	0.076	0.076
Portland, OR	Portland-Vancouver-Beaverton, OR-WA	0.083	0.078	0.080	0.062	0.061	0.068	0.065	0.069	0.068	0.068	0.067
Tallahassee, FL	Tallahassee, FL					0.078	0.077	0.072	0.076	0.074	0.074	0.071
Seattle, WA	Seattle-Tacoma-Bellevue, WA	0.076	0.078	0.081	0.074	0.075	0.069	0.068	0.072	0.074	0.071	0.074
Boulder, CO	Boulder, CO	0.071	0.071	0.078	0.078	0.078	0.072	0.073	0.077	0.076	0.075	0.075
Miami, FL	Miami-Fort Lauderdale-Pompano Beach, FL	0.074	0.075	0.077	0.078	0.079	0.075	0.071	0.068	0.066	0.068	0.072
Provo/Orem, UT	Provo-Orem, UT	0.071	0.076	0.082	0.082	0.086	0.081	0.081	0.079	0.076	0.076	0.076
Charleston, SC	Charleston-North Charleston-Summerville, SC	0.072	0.076	0.077	0.079	0.082	0.078	0.074	0.072	0.073	0.073	0.075
Pinellas, FL	Pinellas County, FL	0.072	0.073	0.079	0.084	0.086	0.083	0.077	0.075	0.072	0.074	0.073
Davenport, IA	Davenport-Moline-Rock Island, IA-IL	0.080	0.078	0.076	0.076	0.077	0.079	0.079	0.079	0.075	0.074	0.068
Columbus,	Columbus,	0.081	0.083	0.084	0.089	0.093	0.090	0.083	0.074	0.072	0.072	0.075

GA	GA-AL											
Jacksonville, FL	Jacksonville, FL	0.078	0.081	0.088	0.088	0.085	0.076	0.072	0.071	0.071	0.079	0.077
Orlando, FL	Orlando-Kissimmee, FL	0.079	0.078	0.084	0.085	0.085	0.081	0.078	0.077	0.076	0.078	0.080
Las Vegas, NV	Las Vegas-Paradise, NV	0.080	0.079	0.080	0.077	0.085	0.080	0.083	0.086	0.085	0.085	0.083
Denver, CO	Denver-Aurora-Broomfield, CO	0.081	0.079	0.084	0.083	0.086	0.081	0.083	0.087	0.084	0.084	0.081
El Paso, TX	El Paso, TX	0.089	0.080	0.082	0.078	0.080	0.076	0.081	0.079	0.078	0.076	0.078
Little Rock, AR	Little Rock-North Little Rock-Conway, AR	0.080	0.081	0.080	0.082	0.087	0.087	0.086	0.081	0.078	0.077	0.080
Terra Haute, IN	Terre Haute, IN	0.092	0.088	0.088	0.083	0.080	0.079	0.079	0.087	0.083	0.076	0.073
Salt Lake City, UT	Salt Lake City, UT	0.089	0.085	0.088	0.082	0.088	0.085	0.086	0.080	0.079	0.080	0.081
Tampa, FL	Tampa-St. Petersburg-Clearwater, FL	0.081	0.082	0.088	0.090	0.088	0.084	0.080	0.079	0.077	0.081	0.080
Oklahoma City, OK	Oklahoma City, OK	0.085	0.083	0.085	0.086	0.084	0.080	0.082	0.080	0.079	0.079	0.081
Ann Arbor, MI	Ann Arbor, MI	0.083			0.083	0.084	0.087	0.087	0.091	0.084	0.081	0.076
Steubenville, OH	Weirton-Steubenville, WV-OH	0.086	0.085	0.084	0.087	0.083	0.084	0.086	0.086	0.083	0.077	0.078

San Jose, CA	San Jose-Sunnyvale-Santa Clara, CA	0.088	0.085	0.086	0.082	0.082	0.079	0.082	0.086	0.084	0.076	0.076
Austin, TX	Austin-Round Rock, TX	0.084	0.081	0.081	0.089	0.089	0.088	0.085	0.084	0.085	0.082	0.082
New Orleans, LA	New Orleans-Metairie-Kenner, LA	0.085	0.083	0.084	0.086	0.091	0.089	0.085	0.082	0.082	0.084	0.082
San Antonio, TX	San Antonio, TX	0.087	0.087	0.085	0.088	0.086	0.082	0.086	0.089	0.091	0.086	0.087
Oakland, CA	San Francisco-Oakland-Fremont, CA	0.093	0.090	0.089	0.086	0.087	0.082	0.081	0.084	0.083	0.078	0.080
San Francisco, CA	San Francisco-Oakland-Fremont, CA	0.093	0.090	0.089	0.086	0.087	0.082	0.081	0.084	0.083	0.078	0.080
Holland, MI	Holland-Grand Haven, MI	0.084	0.084	0.085	0.087	0.084	0.084	0.085	0.089	0.084	0.081	0.079
Phoenix, AZ	Phoenix-Mesa-Scottsdale, AZ	0.090	0.092	0.091	0.088	0.088	0.085	0.085	0.087	0.085	0.084	0.083
Pensacola, FL	Pensacola-Ferry Pass-Brent, FL	0.085	0.084	0.089	0.092	0.094	0.088	0.084	0.080	0.080	0.083	0.083
Kansas City, KS	Kansas City, MO-KS	0.092	0.094	0.093	0.091	0.089	0.084	0.085	0.085	0.083	0.083	0.084
Kansas City,	Kansas City,	0.092	0.094	0.093	0.091	0.089	0.084	0.085	0.085	0.083	0.083	0.084

MO	MO-KS											
Durham, NC	Durham-Chapel Hill, NC	0.084	0.085	0.087	0.093	0.091	0.089	0.091	0.091	0.087	0.079	0.076
Tulsa, OK	Tulsa, OK	0.091	0.089	0.087	0.088	0.093	0.090	0.087	0.083	0.079	0.079	0.079
Columbia, SC	Columbia, SC	0.081	0.080	0.087	0.092	0.096	0.093	0.093	0.089	0.086	0.083	0.082
Erie, PA	Erie, PA	0.087	0.086	0.089	0.093	0.090	0.087	0.088	0.092	0.087	0.083	0.079
Gary, IN	Lake County, IN	0.091	0.095	0.090	0.091	0.088	0.090	0.092	0.090	0.083	0.078	0.077
Norfolk, VA	Virginia Beach-Norfolk-Newport News, VA-NC	0.083	0.087	0.090	0.094	0.089	0.087	0.089	0.090	0.086	0.078	0.076
Worcester, MA	Worcester, MA	0.089	0.087	0.087	0.094	0.088	0.085	0.085	0.086	0.081	0.079	0.078
Scranton, PA	Scranton-Wilkes Barre, PA	0.086	0.090	0.089	0.092	0.087	0.086	0.085	0.086	0.081	0.077	0.075
Toledo, OH	Toledo, OH	0.091	0.089	0.089	0.086	0.084	0.085	0.089	0.093	0.089	0.086	0.079
Greensboro, NC	Greensboro-High Point, NC	0.086	0.085	0.089	0.092	0.094	0.090	0.093	0.091	0.084	0.078	0.075
Grand Rapids, MI	Grand Rapids-Wyoming, MI	0.089	0.088	0.085	0.087	0.084	0.084	0.082	0.088	0.084	0.082	0.078
Dayton, OH	Dayton, OH	0.093	0.091	0.093	0.093	0.090	0.087	0.087	0.090	0.087	0.083	0.079
Winston-Salem, NC	Winston-Salem, NC	0.088	0.089	0.092	0.098	0.098	0.096	0.095	0.093	0.087	0.082	0.080
Buffalo, NY	Buffalo-	0.086	0.085	0.083	0.086	0.089	0.092	0.097	0.099	0.091	0.086	0.083

	Niagara Falls, NY											
Canton, OH	Canton-Massillon, OH	0.089	0.088	0.089	0.091	0.091	0.088	0.089	0.090	0.086	0.082	0.079
Harrisburg, PA	Harrisburg-Carlisle, PA	0.087	0.088	0.088	0.094	0.093	0.094	0.091	0.088	0.082	0.078	0.079
Mercer, PA	Mercer County, PA	0.091	0.092	0.096	0.096	0.092	0.088	0.092	0.094	0.088	0.083	0.080
Raleigh, NC	Raleigh-Cary, NC	0.087	0.089	0.096	0.103	0.101	0.095	0.094	0.092	0.088	0.083	0.078
Richmond, VA	Richmond, VA	0.087	0.090	0.092	0.099	0.091	0.090	0.090	0.094	0.090	0.082	0.081
Birmingham, AL	Birmingham-Hoover, AL	0.096	0.095	0.095	0.097	0.102	0.096	0.092	0.087	0.085	0.084	0.085
Port Arthur, TX	Jefferson County, TX	0.091	0.093	0.091	0.088	0.087	0.085	0.090	0.091	0.092	0.088	0.085
Detroit, MI	Detroit-Warren-Livonia, MI	0.094	0.092	0.093	0.095	0.089	0.088	0.088	0.097	0.092	0.090	0.082
Youngstown, OH	Youngstown-Warren-Boardman, OH-PA	0.092	0.093	0.096	0.096	0.092	0.088	0.092	0.095	0.091	0.086	0.083
Memphis, TN	Memphis, TN-MS-AR	0.094	0.095	0.093	0.095	0.097	0.093	0.094	0.092	0.087	0.086	0.087
Indianapolis, IN	Indianapolis-Carmel, IN	0.098	0.097	0.098	0.097	0.095	0.091	0.093	0.096	0.092	0.087	0.079
Knoxville, TN	Knoxville, TN	0.093	0.095	0.100	0.104	0.104	0.096	0.096	0.092	0.091	0.086	0.084
Boston, MA	Boston-Cambridge-Quincy, MA-NH	0.094	0.095	0.091	0.093	0.086	0.088	0.090	0.093	0.091	0.085	0.083

Baton Rouge, LA	Baton Rouge, LA	0.094	0.096	0.095	0.094	0.098	0.091	0.086	0.086	0.089	0.096	0.091
Louisville, KY	Louisville/Jefferson County, KY-IN	0.094	0.092	0.094	0.096	0.099	0.094	0.090	0.092	0.088	0.082	0.082
Allentown, PA	Allentown-Bethlehem-Easton, PA-NJ	0.094	0.095	0.096	0.100	0.097	0.097	0.094	0.092	0.089	0.087	0.084
Akron, OH	Akron, OH	0.089	0.091	0.092	0.094	0.093	0.092	0.095	0.096	0.089	0.088	0.081
Nashville, TN	Nashville-Murfreesboro-Franklin, TN	0.099	0.099	0.101	0.102	0.100	0.093	0.088	0.086	0.083	0.082	0.083
Cincinnati, OH	Cincinnati-Middletown, OH-KY-IN	0.099	0.095	0.092	0.095	0.094	0.090	0.094	0.093	0.091	0.089	0.086
Milwaukee, WI	Milwaukee-Waukesha-West Allis, WI	0.097	0.098	0.093	0.097	0.092	0.095	0.093	0.098	0.088	0.088	0.079
Pittsburgh, PA	Pittsburgh, PA	0.103	0.105	0.099	0.101	0.096	0.092	0.095	0.094	0.090	0.084	0.083
St Louis, MO	St. Louis, MO-IL	0.104	0.100	0.095	0.095	0.094	0.090	0.090	0.092	0.089	0.086	0.086
Cleveland, OH	Cleveland-Elyria-Mentor, OH	0.100	0.099	0.098	0.099	0.095	0.093	0.099	0.103	0.095	0.089	0.086
Springfield, MA	Springfield, MA	0.092	0.097	0.096	0.099	0.089	0.089	0.092	0.094	0.090	0.084	0.086
Providence, RI	Providence-New Bedford-Fall	0.094	0.097	0.090	0.092	0.088	0.094	0.097	0.095	0.090	0.089	0.085

	River, RI-MA											
Charlotte, NC	Charlotte-Gastonia-Concord, NC-SC	0.094	0.097	0.103	0.104	0.104	0.101	0.102	0.098	0.092	0.087	0.088
Jersey City, NJ	Hudson County, NJ	0.095	0.098	0.093	0.100	0.092	0.093	0.087	0.087	0.083	0.083	0.085
Chicago, IL	Chicago-Naperville-Joliet, IL-IN-WI	0.097	0.096	0.091	0.095	0.093	0.095	0.100	0.101	0.094	0.086	0.083
Wilmington, DE	New Castle County, DE	0.098	0.099	0.095	0.100	0.097	0.097	0.096	0.093	0.089	0.082	0.082
Dallas/Ft Worth, TX	Dallas-Fort Worth-Arlington, TX	0.104	0.104	0.098	0.101	0.102	0.101	0.099	0.100	0.098	0.095	0.096
Washington, DC	Washington-Arlington-Alexandria, DC-VA-MD-WV	0.094	0.100	0.101	0.106	0.101	0.097	0.097	0.099	0.096	0.091	0.091
Hartford, CT	Hartford-West Hartford-East Hartford, CT	0.097	0.098	0.093	0.099	0.095	0.099	0.100	0.101	0.094	0.090	0.089
New Haven, CT	New Haven-Milford, CT	0.101	0.107	0.100	0.103	0.096	0.097	0.099	0.103	0.096	0.090	0.088
Anaheim, CA	Orange County, CA	0.100	0.088	0.088	0.084	0.084	0.079	0.083	0.086	0.087	0.086	0.084
Sacramento, CA	Sacramento-Arden Arcade-	0.106	0.099	0.103	0.103	0.107	0.104	0.106	0.107	0.102	0.097	0.097

	Roseville, CA											
Atlanta, GA	Atlanta-Sandy Springs-Marietta, GA	0.105	0.110	0.113	0.118	0.121	0.107	0.099	0.091	0.093	0.090	0.091
San Diego, CA	San Diego-Carlsbad-San Marcos, CA	0.104	0.099	0.102	0.099	0.100	0.094	0.095	0.093	0.089	0.086	0.088
Baltimore, MD	Baltimore-Towson, MD	0.105	0.107	0.104	0.109	0.107	0.104	0.106	0.104	0.096	0.091	0.093
Philadelphia, PA	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.101	0.110	0.107	0.110	0.106	0.106	0.107	0.101	0.095	0.091	0.090
Fresno, CA	Fresno, CA	0.107	0.111	0.115	0.113	0.111	0.108	0.115	0.111	0.104	0.099	0.098
New York City, NY	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.104	0.108	0.104	0.107	0.107	0.109	0.115	0.109	0.102	0.094	0.093
Houston, TX	Houston-Sugar Land-Baytown, TX	0.116	0.117	0.116	0.118	0.112	0.110	0.107	0.102	0.101	0.103	0.103
Bakersfield, CA	Bakersfield, CA	0.119	0.115	0.115	0.111	0.111	0.109	0.112	0.115	0.116	0.113	0.110
Los Angeles, CA	Los Angeles-Long Beach-Santa Ana, CA	0.145	0.135	0.133	0.118	0.115	0.105	0.113	0.126	0.125	0.120	0.112
Riverside,	Riverside-	0.161	0.148	0.154	0.147	0.146	0.129	0.128	0.131	0.127	0.127	0.121

CA	San Bernardino-Ontario, CA											

Appendix B: Relationship Between Average 24-Hour and Highest 8-Hour Daily Maximum O_3 Concentrations in Study Locations Evaluated by Bell et al. (2006)

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 1987	Highest 8-hour conc. (ppb) 1987	Number of exceedances of 75 ppb 1988	Highest 8-hour conc. (ppb)1988	Number of exceedances of 75 ppb 1989	Highest 8-hour conc. (ppb)1989	Number of exceedances of 75 ppb 1990	Highest 8-hour conc. (ppb)1990
Akron, OH	5	0	16	0	15	0	26	0	30
Akron, OH	10	0	28	0	27	0	27	0	30
Akron, OH	15	0	39	0	46	0	45	0	43
Akron, OH	20	0	54	0	48	0	53	0	54
Akron, OH	25	0	54	0	60	0	60	0	68
Akron, OH	30	0	68	0	66	0	74	0	68
Akron, OH	35	1	81	0	71	0	74	2	81
Akron, OH	40	2	92	3	82	5	85	6	81
Akron, OH	45	11	93	17	95	12	86	14	88
Akron, OH	50	18	99	29	100	19	104	18	99
Akron, OH	55	29	107	37	113	23	104	21	112
Akron, OH	60	29	107	41	113	27	117	25	112
Akron, OH	100	35	119	62	152	28	117	26	112
Albuquerque, NM	10	0	36			0	29		
Albuquerque, NM	15	0	47	0	34	0	41	0	41
Albuquerque, NM	20	0	51	0	59	0	62	0	50
Albuquerque, NM	25	0	66	0	60	0	62	0	57
Albuquerque, NM	30	0	67	0	65	0	67	0	63
Albuquerque, NM	35	2	78	0	71	1	83	3	93
Albuquerque, NM	40	10	97	1	78	1	83	5	93
Albuquerque, NM	45	14	97	2	79	5	83	7	93
Albuquerque, NM	50	17	97	3	93	7	83	7	93
Albuquerque,	55	17	97	3	93	7	83	7	93

NM									
Albuquerque, NM	60	17	97	3	93	7	83	7	93
Albuquerque, NM	100	17	97	3	93	7	83	7	93
Atlanta, GA	5	0	9	0	34	0	30	0	35
Atlanta, GA	10	0	23	0	34	0	31	0	35
Atlanta, GA	15	0	35	0	43	0	36	0	38
Atlanta, GA	20	0	49	0	56	0	48	0	48
Atlanta, GA	25	1	78	0	68	1	78	0	64
Atlanta, GA	30	2	78	2	79	8	105	0	75
Atlanta, GA	35	8	98	7	87	16	105	9	97
Atlanta, GA	40	24	105	24	99	28	109	31	121
Atlanta, GA	45	45	106	39	109	36	109	47	121
Atlanta, GA	50	63	126	53	129	40	109	65	147
Atlanta, GA	55	68	126	68	133	41	109	74	147
Atlanta, GA	60	74	133	71	145	41	109	75	147
Atlanta, GA	100	75	140	78	153	41	109	76	147
Austin, TX	5	0	14	0	10	0	14	0	16
Austin, TX	10	0	28	0	20	0	20	0	31
Austin, TX	15	0	41	0	45	0	38	0	45
Austin, TX	20	0	51	0	47	0	41	0	48
Austin, TX	25	0	56	0	65	0	63	0	58
Austin, TX	30	0	63	0	65	0	63	0	71
Austin, TX	35	1	81	0	73	0	73	0	75
Austin, TX	40	2	81	1	81	4	82	1	102
Austin, TX	45	6	83	6	81	6	85	3	102
Austin, TX	50	10	83	11	87	7	85	8	102
Austin, TX	55	15	97	15	98	10	85	9	102
Austin, TX	60	17	97	21	101	10	85	9	102
Austin, TX	100	18	97	23	101	13	106	10	105
Bakersfield, CA	5								
Bakersfield, CA	10	0	25	0	28	0	25	0	24
Bakersfield,	15	0	35	0	31	0	41	0	38

CA									
Bakersfield, CA	20	0	44	0	46	0	47	0	46
Bakersfield, CA	25	0	48	0	53	0	54	0	58
Bakersfield, CA	30	0	66	0	66	0	70	0	63
Bakersfield, CA	35	1	77	1	76	2	81	1	80
Bakersfield, CA	40	6	78	9	88	6	93	13	85
Bakersfield, CA	45	25	96	14	105	17	101	45	93
Bakersfield, CA	50	52	106	35	110	49	106	78	106
Bakersfield, CA	55	85	115	60	111	90	120	113	112
Bakersfield, CA	60	104	116	100	120	119	120	132	123
Bakersfield, CA	100	133	128	151	127	140	136	142	123
Baltimore, MD	5	0	26	0	28	0	31	0	20
Baltimore, MD	10	0	38	0	52	0	37	0	36
Baltimore, MD	15	0	46	0	52	0	51	0	55
Baltimore, MD	20	0	63	0	67	0	67	0	55
Baltimore, MD	25	0	64	0	68	0	70	0	67
Baltimore, MD	30	1	76	0	73	1	79	1	78
Baltimore, MD	35	3	80	2	107	6	85	6	94
Baltimore, MD	40	18	100	6	107	14	98	16	94
Baltimore, MD	45	34	116	14	114	30	100	34	106

Baltimore, MD	50	50	116	22	119	38	100	44	106
Baltimore, MD	55	62	151	35	127	38	100	48	111
Baltimore, MD	60	69	151	46	132	43	142	52	111
Baltimore, MD	100	78	151	66	163	43	142	54	130
Baton Rouge, LA	5	0	22			0	11		
Baton Rouge, LA	10	0	32	0	31	0	30	0	26
Baton Rouge, LA	15	0	50	0	48	0	48	0	49
Baton Rouge, LA	20	0	68	0	62	0	57	0	65
Baton Rouge, LA	25	0	68	2	91	1	78	0	74
Baton Rouge, LA	30	5	100	5	101	7	86	2	90
Baton Rouge, LA	35	17	100	9	105	14	109	12	100
Baton Rouge, LA	40	28	100	15	124	26	109	24	100
Baton Rouge, LA	45	38	108	25	124	29	109	38	100
Baton Rouge, LA	50	46	110	34	124	30	124	47	137
Baton Rouge, LA	55	47	131	40	124	31	124	48	137
Baton Rouge, LA	60	48	131	41	124	32	124	52	137
Baton Rouge, LA	100	48	131	41	124	32	124	52	137
Biddeford, ME	5	0		0		0	27	0	37
Biddeford, ME	10	0		0		0	27	0	37
Biddeford,	15	0	31	0	35	0	37	0	37

ME									
Biddeford, ME	20	0	41	0	35	0	37	0	37
Biddeford, ME	25	0	48	0	46	0	41	0	43
Biddeford, ME	30	0	69	0	52	0	56	0	58
Biddeford, ME	35	0	69	0	72	0	70	0	64
Biddeford, ME	40	0	69	0	73	0	71	0	75
Biddeford, ME	45	4	87	0	73	1	76	2	79
Biddeford, ME	50	7	87	6	110	3	86	5	100
Biddeford, ME	55	9	87	10	112	5	88	7	106
Biddeford, ME	60	10	99	19	131	7	99	11	106
Biddeford, ME	100	15	124	36	142	15	125	17	135
Birmingham, AL	5	0	38	0	12	0	23	0	17
Birmingham, AL	10	0	38	0	30	0	29	0	27
Birmingham, AL	15	0	56	0	44	0	47	0	69
Birmingham, AL	20	0	66	0	64	0	65	0	69
Birmingham, AL	25	3	80	0	72	0	71	0	72
Birmingham, AL	30	12	90	10	95	3	82	1	78
Birmingham, AL	35	35	110	19	95	8	96	11	94
Birmingham, AL	40	45	110	39	127	14	96	28	108
Birmingham, AL	45	48	118	51	127	15	96	42	108

Birmingham, AL	50	48	118	57	127	15	96	48	108
Birmingham, AL	55	48	118	57	127	15	96	50	108
Birmingham, AL	60	48	118	57	127	15	96	50	108
Birmingham, AL	100	48	118	57	127	15	96	50	108
Boston, MA	5	0	17	0	21	0	18	0	22
Boston, MA	10	0	40	0	28	0	29	0	32
Boston, MA	15	0	42	0	39	0	52	0	39
Boston, MA	20	0	52	0	47	1	78	0	59
Boston, MA	25	0	71	0	58	1	78	0	61
Boston, MA	30	0	71	0	66	2	85	0	71
Boston, MA	35	4	83	0	72	4	85	0	74
Boston, MA	40	8	95	1	79	8	90	3	86
Boston, MA	45	14	104	9	106	14	108	5	86
Boston, MA	50	18	104	16	114	17	108	8	113
Boston, MA	55	26	137	19	114	21	128	10	113
Boston, MA	60	27	137	28	138	24	128	11	113
Boston, MA	100	27	137	42	151	24	128	13	113
Buffalo, NY	5			0	15	0	9	0	13
Buffalo, NY	10	0	24	0	24	0	35	0	30
Buffalo, NY	15	0	34	0	32	0	35	0	35
Buffalo, NY	20	0	50	0	42	0	44	0	47
Buffalo, NY	25	0	58	0	52	0	56	0	56
Buffalo, NY	30	0	59	0	65	0	69	0	61
Buffalo, NY	35	0	64	1	79	0	69	1	87
Buffalo, NY	40	1	83	1	79	0	75	3	87
Buffalo, NY	45	3	88	2	82	11	85	3	87
Buffalo, NY	50	7	90	7	101	15	85	4	89
Buffalo, NY	55	11	90	11	101	16	85	8	89
Buffalo, NY	60	17	99	17	119	17	112	9	89
Buffalo, NY	100	33	122	41	133	19	112	13	105
Cedar Rapids, IA	5	0	16	0	17	0	27	0	22

Cedar Rapids, IA	10	0	28	0	27	0	27	0	26
Cedar Rapids, IA	15	0	34	0	38	0	34	0	36
Cedar Rapids, IA	20	0	44	0	49	0	56	0	47
Cedar Rapids, IA	25	0	53	0	59	0	56	0	47
Cedar Rapids, IA	30	0	58	0	70	0	56	0	49
Cedar Rapids, IA	35	0	69	2	80	0	60	0	56
Cedar Rapids, IA	40	0	70	5	90	0	68	0	66
Cedar Rapids, IA	45	0	72	8	90	0	73	0	66
Cedar Rapids, IA	50	0	72	12	90	1	78	0	66
Cedar Rapids, IA	55	2	88	13	90	3	88	0	66
Cedar Rapids, IA	60	2	88	14	90	3	88	0	66
Cedar Rapids, IA	100	2	88	14	90	3	88	0	66
Charlotte, NC	5	0	16	0	10	0	8	0	15
Charlotte, NC	10	0	28	0	21	0	30	0	29
Charlotte, NC	15	0	47	0	38	0	38	0	34
Charlotte, NC	20	0	57	0	53	0	48	0	59
Charlotte, NC	25	0	65	0	59	0	68	0	61
Charlotte, NC	30	0	73	1	86	4	83	0	71
Charlotte, NC	35	6	82	4	86	6	86	3	85
Charlotte, NC	40	12	91	12	96	14	90	12	102
Charlotte, NC	45	28	96	28	96	26	102	32	102
Charlotte, NC	50	40	101	41	113	35	102	47	102
Charlotte, NC	55	49	108	50	117	37	102	58	114
Charlotte, NC	60	59	128	58	117	37	102	60	114
Charlotte, NC	100	62	128	69	151	37	102	61	114
Chicago, IL	5	0	30	0	23	0	26	0	23

Chicago, IL	10	0	43	0	37	0	29	0	75
Chicago, IL	15	0	56	0	44	0	62	8	104
Chicago, IL	20	0	59	0	64	0	64	15	104
Chicago, IL	25	1	83	2	96	1	77	19	104
Chicago, IL	30	1	83	4	103	5	87	30	122
Chicago, IL	35	9	105	14	103	15	96	44	122
Chicago, IL	40	18	105	33	165	29	112	52	122
Chicago, IL	45	25	105	43	165	39	112	58	122
Chicago, IL	50	36	148	55	165	43	131	60	122
Chicago, IL	55	40	148	66	165	47	131	65	122
Chicago, IL	60	42	148	72	165	47	131	65	122
Chicago, IL	100	43	163	78	186	47	131	65	122
Cincinnati, OH	5	0	21	0	5	0	30	0	15
Cincinnati, OH	10	0	24	0	33	0	30	0	28
Cincinnati, OH	15	0	47	0	52	0	53	0	43
Cincinnati, OH	20	0	57	0	60	0	63	0	54
Cincinnati, OH	25	0	73	0	70	0	74	0	74
Cincinnati, OH	30	7	89	2	86	1	77	2	81
Cincinnati, OH	35	19	116	12	93	10	90	15	119
Cincinnati, OH	40	42	116	21	93	22	102	33	119
Cincinnati, OH	45	57	134	43	121	30	110	37	119
Cincinnati, OH	50	61	134	57	130	39	113	41	119
Cincinnati, OH	55	63	139	68	160	39	113	42	119
Cincinnati, OH	60	65	139	71	160	40	113	43	119
Cincinnati, OH	100	65	139	76	160	40	113	43	119

Cleveland, OH	5	0	11	0	14	0	28	0	36
Cleveland, OH	10	0	28	0	27	0	28	0	46
Cleveland, OH	15	0	40	0	46	0	33	0	46
Cleveland, OH	20	0	52	0	63	0	54	0	46
Cleveland, OH	25	0	60	0	63	0	62	0	63
Cleveland, OH	30	0	74	0	68	0	70	0	74
Cleveland, OH	35	3	87	1	76	3	88	1	76
Cleveland, OH	40	6	87	6	86	8	88	4	84
Cleveland, OH	45	13	90	12	107	22	101	10	95
Cleveland, OH	50	20	114	23	107	28	101	12	99
Cleveland, OH	55	29	114	34	107	31	110	16	123
Cleveland, OH	60	31	114	39	108	33	110	18	123
Cleveland, OH	100	34	138	61	142	33	110	19	123
Colorado Springs, CO	5	0	11	0	26			0	15
Colorado Springs, CO	10	0	29	0	38	0	33	0	29
Colorado Springs, CO	15	0	40	0	40	0	39	0	35
Colorado Springs, CO	20	0	57	0	53	0	44	0	50
Colorado Springs, CO	25	0	70	0	53	0	53	0	59
Colorado Springs, CO	30	0	70	0	64	0	57	0	59

Colorado Springs, CO	35	0	70	0	64	0	63	0	64
Colorado Springs, CO	40	0	70	0	71	0	64	0	67
Colorado Springs, CO	45	0	70	1	76	0	71	0	73
Colorado Springs, CO	50	0	70	1	76	0	72	0	73
Colorado Springs, CO	55	0	70	1	76	1	76	0	73
Colorado Springs, CO	60	0	70	1	76	1	76	0	73
Colorado Springs, CO	100	0	70	1	76	1	76	0	73
Columbus, GA	5	0	31	0		0	24	0	9
Columbus, GA	10	0	31	0	26	0	33	0	31
Columbus, GA	15	0	35	0	44	0	39	0	43
Columbus, GA	20	0	44	0	49	0	59	0	59
Columbus, GA	25	0	68	0	58	0	60	0	59
Columbus, GA	30	1	82	1	79	0	71	0	72
Columbus, GA	35	1	82	2	79	1	80	1	78
Columbus, GA	40	7	92	4	82	1	80	2	78
Columbus, GA	45	15	92	9	82	2	83	2	78
Columbus, GA	50	21	95	10	87	2	83	3	94
Columbus, GA	55	22	95	11	93	2	83	3	94
Columbus, GA	60	23	95	11	93	2	83	3	94

Columbus, GA	100	23	95	11	93	2	83	3	94
Columbus, OH	5	0	22	0	10	0	35	0	16
Columbus, OH	10	0	31	0	28	0	35	0	26
Columbus, OH	15	0	47	0	34	0	45	0	58
Columbus, OH	20	0	54	0	52	0	45	0	58
Columbus, OH	25	0	66	0	58	0	58	0	67
Columbus, OH	30	0	72	0	61	0	68	0	74
Columbus, OH	35	1	76	3	84	2	78	2	82
Columbus, OH	40	3	81	5	84	8	82	3	85
Columbus, OH	45	10	94	12	89	13	95	8	92
Columbus, OH	50	17	104	19	95	17	98	16	102
Columbus, OH	55	18	104	25	124	20	98	20	102
Columbus, OH	60	20	124	31	124	20	98	20	102
Columbus, OH	100	20	124	37	134	20	98	21	102
Corpus Christi, TX	5			0	13	0	13	0	10
Corpus Christi, TX	10	0	25	0	26	0	25	0	30
Corpus Christi, TX	15	0	38	0	45	0	42	0	33
Corpus Christi, TX	20	0	47	0	53	0	50	0	45
Corpus Christi, TX	25	0	73	0	62	0	51	0	55
Corpus	30	0	73	0	71	0	56	0	58

Christi, TX									
Corpus Christi, TX	35	0	73	0	71	0	66	0	75
Corpus Christi, TX	40	1	76	0	71	0	72	0	75
Corpus Christi, TX	45	5	86	3	82	1	88	5	86
Corpus Christi, TX	50	11	87	7	91	5	88	7	86
Corpus Christi, TX	55	15	93	10	91	8	88	9	86
Corpus Christi, TX	60	18	101	13	98	12	88	10	87
Corpus Christi, TX	100	18	101	13	98	14	88	10	87
Dallas/Ft Worth, TX	5	0	10	0	20	0	20	0	28
Dallas/Ft Worth, TX	10	0	28	0	28	0	33	0	31
Dallas/Ft Worth, TX	15	0	45	0	38	0	37	0	45
Dallas/Ft Worth, TX	20	0	52	0	46	0	51	0	55
Dallas/Ft Worth, TX	25	0	58	0	66	0	60	1	78
Dallas/Ft Worth, TX	30	1	90	2	76	0	71	2	78
Dallas/Ft Worth, TX	35	5	90	7	87	8	86	4	85
Dallas/Ft Worth, TX	40	16	90	15	100	19	101	14	100
Dallas/Ft Worth, TX	45	36	128	38	111	31	102	24	100
Dallas/Ft Worth, TX	50	53	128	58	121	42	111	40	111
Dallas/Ft Worth, TX	55	61	142	79	121	48	111	47	121
Dallas/Ft Worth, TX	60	65	142	84	121	49	111	50	121

Dallas/Ft Worth, TX	100	65	142	86	121	51	111	50	121
Dayton, OH	5	0	20	0	4	0	29	0	12
Dayton, OH	10	0	20	0	25	0	29	0	25
Dayton, OH	15	0	42	0	37	0	60	0	39
Dayton, OH	20	0	62	0	64	1	80	0	65
Dayton, OH	25	0	68	0	72	1	80	0	74
Dayton, OH	30	1	97	0	72	3	82	2	96
Dayton, OH	35	4	98	2	83	5	82	4	96
Dayton, OH	40	11	98	9	92	9	83	9	108
Dayton, OH	45	16	98	19	104	14	100	13	108
Dayton, OH	50	23	98	26	114	19	100	15	108
Dayton, OH	55	26	98	32	114	21	100	16	108
Dayton, OH	60	26	98	37	114	21	100	16	108
Dayton, OH	100	28	98	47	114	21	100	16	108
Denver, CO	5	0	10	0	35	0	21	0	21
Denver, CO	10	0	45	0	41	0	41	0	41
Denver, CO	15	0	59	0	48	0	52	0	48
Denver, CO	20	1	83	0	54	0	60	0	68
Denver, CO	25	2	95	0	66	0	73	0	68
Denver, CO	30	2	95	0	75	0	73	0	75
Denver, CO	35	7	103	10	83	1	79	4	86
Denver, CO	40	15	109	25	101	6	88	8	86
Denver, CO	45	25	109	40	105	15	92	12	86
Denver, CO	50	33	109	42	105	17	92	12	86
Denver, CO	55	33	109	43	105	18	92	13	96
Denver, CO	60	33	109	43	105	18	92	13	96
Denver, CO	100	33	109	43	105	18	92	13	96
Des Moines, IA	5	0	18	0	24	0	31	0	19
Des Moines, IA	10	0	30	0	37	0	33	0	29
Des Moines, IA	15	0	46	0	51	0	51	0	46
Des Moines, IA	20	0	46	0	53	0	55	0	46

Des Moines, IA	25	0	47	0	53	0	71	0	52
Des Moines, IA	30	0	47	0	53	1	79	0	53
Des Moines, IA	35	0	47	0	53	1	79	0	58
Des Moines, IA	40	0	47	0	53	1	79	0	58
Des Moines, IA	45	0	47	0	53	1	79	0	58
Des Moines, IA	50	0	47	0	53	1	79	0	58
Des Moines, IA	55	0	47	0	53	1	79	0	58
Des Moines, IA	60	0	47	0	53	1	79	0	58
Des Moines, IA	100	0	47	0	53	1	79	0	58
Detroit, MI	5	0	21	0	22	0	31	0	16
Detroit, MI	10	0	40	0	32	0	33	0	30
Detroit, MI	15	0	53	0	39	0	55	0	42
Detroit, MI	20	0	59	0	56	1	82	0	52
Detroit, MI	25	0	66	0	68	1	82	0	74
Detroit, MI	30	0	74	0	70	4	82	1	80
Detroit, MI	35	5	87	4	81	8	92	2	80
Detroit, MI	40	16	97	10	98	15	100	6	86
Detroit, MI	45	23	101	20	104	24	108	12	108
Detroit, MI	50	25	101	26	116	33	119	14	108
Detroit, MI	55	27	114	36	118	34	119	18	108
Detroit, MI	60	27	114	39	119	34	119	18	108
Detroit, MI	100	27	114	46	145	34	119	19	108
El Paso, TX	5					0	13	0	12
El Paso, TX	10	0	42	0	35	0	26	0	27
El Paso, TX	15	0	50	0	56	0	46	0	53
El Paso, TX	20	0	55	0	60	0	71	0	61
El Paso, TX	25	1	86	1	82	0	71	0	75
El Paso, TX	30	3	86	2	100	5	95	1	76

El Paso, TX	35	10	95	5	100	9	95	4	87
El Paso, TX	40	12	95	6	100	11	95	6	87
El Paso, TX	45	17	98	9	100	19	111	11	98
El Paso, TX	50	20	98	13	100	21	111	12	103
El Paso, TX	55	22	98	16	100	21	111	13	103
El Paso, TX	60	24	103	17	100	21	111	14	103
El Paso, TX	100	26	127	17	100	21	111	14	103
Evansville, IN	5	0	37	0	33	0	14	0	20
Evansville, IN	10	0	37	0	33	0	15	0	20
Evansville, IN	15	0	37	0	35	0	51	0	47
Evansville, IN	20	0	50	0	53	0	60	0	51
Evansville, IN	25	0	52	0	55	0	64	0	63
Evansville, IN	30	0	65	0	63	0	72	1	78
Evansville, IN	35	0	72	0	74	4	83	4	85
Evansville, IN	40	7	94	4	85	11	86	10	91
Evansville, IN	45	20	98	19	102	20	96	16	99
Evansville, IN	50	37	98	32	102	30	96	23	106
Evansville, IN	55	45	105	43	110	34	96	33	106
Evansville, IN	60	51	105	53	114	35	125	34	106
Evansville, IN	100	54	105	67	125	36	125	34	106
Fresno, CA	5								
Fresno, CA	10	0	28	0	28	0	30	0	35
Fresno, CA	15	0	41	0	42	0	44	0	70
Fresno, CA	20	0	55	0	56	0	58	1	77
Fresno, CA	25	0	66	0	67	0	70	2	77
Fresno, CA	30	0	71	0	73	1	83	3	77
Fresno, CA	35	4	81	6	81	11	90	11	86
Fresno, CA	40	14	90	30	98	39	102	26	95
Fresno, CA	45	49	105	63	108	85	110	53	103
Fresno, CA	50	89	112	96	113	122	121	76	105
Fresno, CA	55	115	113	115	113	131	121	86	105
Fresno, CA	60	132	120	132	122	131	121	93	117
Fresno, CA	100	154	150	147	125	132	121	95	117
Ft. Wayne, IN	5	0		0	37	0	28	0	9
Ft. Wayne, IN	10	0	12	0	37	0	28	0	23

Ft. Wayne, IN	15	0	35	0	38	0	36	0	37
Ft. Wayne, IN	20	0	52	0	50	0	49	0	55
Ft. Wayne, IN	25	0	60	0	58	0	67	0	58
Ft. Wayne, IN	30	0	66	0	59	0	67	0	71
Ft. Wayne, IN	35	0	75	0	68	0	67	0	71
Ft. Wayne, IN	40	3	78	0	73	2	88	2	84
Ft. Wayne, IN	45	8	91	2	78	9	88	6	84
Ft. Wayne, IN	50	17	95	11	87	13	93	9	84
Ft. Wayne, IN	55	21	98	18	107	16	107	10	84
Ft. Wayne, IN	60	24	98	25	122	18	107	10	84
Ft. Wayne, IN	100	25	98	40	122	18	107	12	102
Grand Rapids, MI	5	0	20	0	25	0	35	0	7
Grand Rapids, MI	10	0	22	0	25	0	35	0	19
Grand Rapids, MI	15	0	34	0	35	0	35	0	39
Grand Rapids, MI	20	0	48	0	46	0	52	0	41
Grand Rapids, MI	25	0	52	0	54	0	64	0	56
Grand Rapids, MI	30	0	60	0	57	0	69	0	71
Grand Rapids, MI	35	0	75	0	64	0	72	2	77
Grand Rapids, MI	40	4	88	0	72	5	87	2	77
Grand Rapids, MI	45	6	88	1	81	13	87	3	85
Grand Rapids, MI	50	11	93	9	98	20	95	6	85
Grand Rapids, MI	55	20	95	15	98	24	95	9	85
Grand Rapids, MI	60	24	101	23	100	29	103	15	94
Grand Rapids, MI	100	32	122	47	134	31	126	19	109
Greensboro,	5	0	32	0	26	0	38	0	2

NC									
Greensboro, NC	10	0	32	0	26	0	38	0	2
Greensboro, NC	15	0	35	0	26	0	38	0	35
Greensboro, NC	20	0	41	0	42	0	41	0	42
Greensboro, NC	25	0	55	0	43	0	51	0	53
Greensboro, NC	30	0	64	0	53	0	63	0	68
Greensboro, NC	35	0	75	0	68	0	70	1	79
Greensboro, NC	40	2	84	1	76	0	75	4	89
Greensboro, NC	45	8	84	3	86	1	77	10	89
Greensboro, NC	50	12	84	17	93	5	86	15	90
Greensboro, NC	55	15	89	29	98	5	86	19	101
Greensboro, NC	60	17	89	41	100	7	86	23	101
Greensboro, NC	100	21	96	58	130	9	86	27	106
Honolulu, HI	5	0	15	0	9	0	13	0	11
Honolulu, HI	10	0	23	0	20	0	16	0	22
Honolulu, HI	15	0	36	0	20	0	29	0	30
Honolulu, HI	20	0	36	0	20	0	29	0	39
Honolulu, HI	25	0	38	0	20	0	29	0	39
Honolulu, HI	30	0	38	0	20	0	29	0	41
Honolulu, HI	35	0	40	0	20	0	29	0	41
Honolulu, HI	40	0	40	0	20	0	29	0	41
Honolulu, HI	45	0	40	0	20	0	29	0	41
Honolulu, HI	50	0	40	0	20	0	29	0	41
Honolulu, HI	55	0	40	0	20	0	29	0	41
Honolulu, HI	60	0	40	0	20	0	29	0	41
Honolulu, HI	100	0	40	0	20	0	29	0	41

Houston, TX	5	0	20	0	22	0	18	0	18
Houston, TX	10	0	35	0	32	0	48	0	38
Houston, TX	15	0	52	0	70	0	70	0	65
Houston, TX	20	0	72	3	85	0	75	3	83
Houston, TX	25	8	128	12	98	4	92	12	101
Houston, TX	30	27	128	26	115	13	101	24	147
Houston, TX	35	49	128	43	120	24	111	37	147
Houston, TX	40	56	128	67	136	39	121	51	147
Houston, TX	45	73	137	86	136	47	138	61	147
Houston, TX	50	85	137	98	136	51	148	68	152
Houston, TX	55	87	137	102	136	54	155	70	152
Houston, TX	60	91	143	104	178	57	155	73	163
Houston, TX	100	91	143	105	178	57	155	74	170
Huntsville, AL	5	0	35	0	18	0	22	0	14
Huntsville, AL	10	0	35	0	24	0	22	0	26
Huntsville, AL	15	0	35	0	39	0	38	0	36
Huntsville, AL	20	0	62	0	50	0	53	0	42
Huntsville, AL	25	0	62	0	61	0	63	0	47
Huntsville, AL	30	0	75	0	61	0	71	0	64
Huntsville, AL	35	1	77	0	73	0	71	0	68
Huntsville, AL	40	4	82	0	74	0	73	0	74
Huntsville, AL	45	7	91	9	91	0	74	3	80
Huntsville, AL	50	12	91	22	93	0	74	4	81
Huntsville, AL	55	15	94	29	100	0	74	5	81
Huntsville, AL	60	17	94	33	108	0	74	6	81
Huntsville, AL	100	17	94	40	110	0	74	6	81
Indianapolis, IN	5	0	27	0	16	0	24	0	18
Indianapolis, IN	10	0	27	0	21	0	24	0	30
Indianapolis, IN	15	0	37	0	41	0	38	0	34
Indianapolis, IN	20	0	47	0	47	0	54	0	52
Indianapolis, IN	25	0	59	0	54	0	67	0	61

Indianapolis, IN	30	0	74	0	64	0	69	0	66
Indianapolis, IN	35	3	80	0	74	3	82	1	77
Indianapolis, IN	40	10	83	4	94	11	90	5	86
Indianapolis, IN	45	25	106	13	98	20	100	12	89
Indianapolis, IN	50	42	107	19	107	28	103	21	112
Indianapolis, IN	55	45	107	27	107	31	103	26	112
Indianapolis, IN	60	47	107	39	127	35	104	27	112
Indianapolis, IN	100	50	107	53	127	35	104	29	112
Jackson, MS	5	0	34	0	24	0	22	0	15
Jackson, MS	10	0	34	0	24	0	24	0	19
Jackson, MS	15	0	34	0	31	0	29	0	29
Jackson, MS	20	0	52	0	44	0	47	0	39
Jackson, MS	25	0	68	0	51	0	50	0	49
Jackson, MS	30	0	71	0	63	0	68	0	62
Jackson, MS	35	1	77	0	64	0	68	0	74
Jackson, MS	40	3	77	0	70	0	73	2	78
Jackson, MS	45	4	87	4	80	2	89	5	78
Jackson, MS	50	4	87	9	90	2	89	11	85
Jackson, MS	55	5	87	14	90	2	89	15	86
Jackson, MS	60	5	87	15	90	2	89	16	86
Jackson, MS	100	6	87	16	90	2	89	16	86
Jacksonville, FL	5			0	16	0	12	0	8
Jacksonville, FL	10	0	33	0	26	0	33	0	22
Jacksonville, FL	15	0	35	0	35	0	43	0	44
Jacksonville, FL	20	0	45	0	57	0	47	0	44
Jacksonville,	25	0	56	0	57	0	55	0	55

FL									
Jacksonville, FL	30	0	72	0	64	0	69	0	66
Jacksonville, FL	35	2	78	0	75	0	69	0	69
Jacksonville, FL	40	4	84	3	83	1	86	3	84
Jacksonville, FL	45	13	93	6	92	1	86	4	84
Jacksonville, FL	50	15	93	11	92	5	89	8	95
Jacksonville, FL	55	17	123	14	92	9	89	11	95
Jacksonville, FL	60	18	123	17	92	9	89	11	95
Jacksonville, FL	100	19	123	19	92	9	89	11	95
Johnstown, PA	5	0	17	0	29	0	14	0	23
Johnstown, PA	10	0	27	0	29	0	35	0	27
Johnstown, PA	15	0	44	0	42	0	38	0	44
Johnstown, PA	20	0	52	0	50	0	54	0	54
Johnstown, PA	25	0	60	0	55	0	63	0	61
Johnstown, PA	30	0	68	0	65	0	64	0	68
Johnstown, PA	35	0	73	0	72	0	69	0	74
Johnstown, PA	40	0	74	3	82	1	91	2	80
Johnstown, PA	45	7	83	8	90	3	91	2	80
Johnstown, PA	50	14	94	15	94	5	91	4	93
Johnstown, PA	55	15	94	23	106	5	91	4	93

Johnstown, PA	60	18	109	26	106	5	91	5	93
Johnstown, PA	100	19	109	33	125	5	91	5	93
Kansas City, MO	5	0	22	0	16	0	12		
Kansas City, MO	10	0	24	0	29	0	27	0	31
Kansas City, MO	15	0	35	0	37	0	37	0	37
Kansas City, MO	20	0	48	0	42	0	50	0	46
Kansas City, MO	25	0	60	0	55	0	68	0	54
Kansas City, MO	30	0	69	1	94	0	72	0	62
Kansas City, MO	35	1	77	3	94	2	81	0	75
Kansas City, MO	40	2	78	4	94	4	90	3	81
Kansas City, MO	45	16	91	10	94	8	90	3	81
Kansas City, MO	50	23	95	20	94	13	106	6	82
Kansas City, MO	55	24	95	25	94	14	106	7	94
Kansas City, MO	60	26	95	33	100	14	106	9	101
Kansas City, MO	100	27	95	46	138	14	106	9	101
Kingston, NY	5	0		0		0		0	
Kingston, NY	10	0		0		0		0	
Kingston, NY	15	0		0		0		0	
Kingston, NY	20	0		0		0		0	
Kingston, NY	25	0		0		0		0	
Kingston, NY	30	0		0		0		0	
Kingston, NY	35	0		0		0		0	
Kingston, NY	40	0		0		0		0	

Kingston, NY	45	0		0		0		0	
Kingston, NY	50	0		0		0		0	
Kingston, NY	55	0		0		0		0	
Kingston, NY	60	0		0		0		0	
Kingston, NY	100	0		0		0		0	
Knoxville, TN	5	0	21	0	8	0	5	0	
Knoxville, TN	10	0	21	0	13	0	16	0	21
Knoxville, TN	15	0	31	0	41	0	35	0	33
Knoxville, TN	20	0	46	0	53	0	56	0	36
Knoxville, TN	25	0	64	0	53	0	65	0	60
Knoxville, TN	30	1	81	0	71	0	74	0	63
Knoxville, TN	35	3	93	0	74	2	86	0	68
Knoxville, TN	40	5	93	7	87	3	86	2	90
Knoxville, TN	45	17	93	16	90	9	86	7	90
Knoxville, TN	50	28	96	24	111	12	86	17	90
Knoxville, TN	55	35	96	31	111	13	88	37	101
Knoxville, TN	60	38	101	39	113	13	88	42	105
Knoxville, TN	100	42	101	43	130	13	88	44	114
Lafayette, LA	5	0	11	0	20	0	8	0	13
Lafayette, LA	10	0	27	0	26	0	21	0	27
Lafayette, LA	15	0	42	0	44	0	34	0	41
Lafayette, LA	20	0	47	0	56	0	44	0	49
Lafayette, LA	25	0	52	0	57	0	60	0	64
Lafayette, LA	30	0	71	0	66	0	73	0	67
Lafayette, LA	35	1	80	1	78	1	79	0	71
Lafayette, LA	40	2	82	1	78	5	80	1	77
Lafayette, LA	45	8	82	3	83	7	82	3	81
Lafayette, LA	50	11	83	8	87	8	82	8	96
Lafayette, LA	55	13	89	13	87	9	82	10	96
Lafayette, LA	60	17	93	18	92	9	82	10	96
Lafayette, LA	100	18	98	23	99	9	82	10	96
Lake Charles, LA	5			0	10			0	6
Lake Charles, LA	10	0	26	0	26	0	15	0	22

Lake Charles, LA	15	0	41	0	37	0	32	0	48
Lake Charles, LA	20	0	49	0	44	0	64	0	52
Lake Charles, LA	25	0	55	0	55	0	64	0	62
Lake Charles, LA	30	1	76	1	81	0	70	0	72
Lake Charles, LA	35	7	86	2	81	3	83	6	90
Lake Charles, LA	40	17	87	9	94	10	93	11	90
Lake Charles, LA	45	22	97	16	94	14	93	17	124
Lake Charles, LA	50	29	97	21	96	14	93	21	124
Lake Charles, LA	55	31	97	30	106	18	95	23	124
Lake Charles, LA	60	32	97	35	106	18	95	24	124
Lake Charles, LA	100	34	115	35	106	18	95	24	124
Las Vegas, NV	5	0	11	0	39			0	16
Las Vegas, NV	10	0	28	0	39	0	36	0	36
Las Vegas, NV	15	0	47	0	41	0	45	0	48
Las Vegas, NV	20	0	50	0	67	0	55	0	57
Las Vegas, NV	25	0	59	1	77	0	63	1	83
Las Vegas, NV	30	0	68	1	77	0	69	1	83
Las Vegas, NV	35	0	68	2	77	1	82	1	83
Las Vegas, NV	40	1	77	3	78	3	97	2	83
Las Vegas,	45	4	86	5	95	5	97	6	92

NV									
Las Vegas, NV	50	6	86	9	95	9	97	6	92
Las Vegas, NV	55	9	86	9	95	10	97	6	92
Las Vegas, NV	60	12	86	9	95	10	97	6	92
Las Vegas, NV	100	15	94	13	95	11	97	6	92
Lexington, KY	5	0	23	0	15	0	21	0	9
Lexington, KY	10	0	24	0	24	0	21	0	22
Lexington, KY	15	0	36	0	36	0	31	0	32
Lexington, KY	20	0	42	0	43	0	40	0	40
Lexington, KY	25	0	50	0	50	0	49	0	45
Lexington, KY	30	0	67	0	56	0	62	0	61
Lexington, KY	35	0	74	0	75	0	75	0	73
Lexington, KY	40	1	77	0	75	1	96	0	74
Lexington, KY	45	4	98	3	83	3	96	3	80
Lexington, KY	50	18	98	12	95	10	96	8	96
Lexington, KY	55	31	98	21	95	15	96	11	100
Lexington, KY	60	36	98	32	116	21	97	13	100
Lexington, KY	100	44	111	49	121	23	108	15	101
Lincoln, NE	5	0	12	0	21	0	22	0	15
Lincoln, NE	10	0	24	0	21	0	22	0	19
Lincoln, NE	15	0	28	0	25	0	27	0	27
Lincoln, NE	20	0	36	0	32	0	34	0	38

Lincoln, NE	25	0	45	0	44	0	44	0	43
Lincoln, NE	30	0	45	0	54	0	48	0	50
Lincoln, NE	35	0	45	0	58	0	55	0	55
Lincoln, NE	40	0	52	0	62	0	57	0	57
Lincoln, NE	45	0	52	0	65	0	59	0	62
Lincoln, NE	50	0	52	0	69	0	59	0	62
Lincoln, NE	55	0	52	0	72	0	59	0	62
Lincoln, NE	60	0	52	0	72	0	59	0	62
Lincoln, NE	100	0	52	0	74	0	59	0	62
Little Rock, AR	5	0	20	0	6	0	13	0	18
Little Rock, AR	10	0	23	0	18	0	19	0	26
Little Rock, AR	15	0	36	0	30	0	30	0	33
Little Rock, AR	20	0	44	0	47	0	42	0	43
Little Rock, AR	25	0	65	0	54	0	51	0	53
Little Rock, AR	30	0	65	0	57	0	61	0	57
Little Rock, AR	35	0	69	1	80	0	69	0	66
Little Rock, AR	40	0	74	1	80	0	69	1	79
Little Rock, AR	45	7	90	7	95	0	75	7	81
Little Rock, AR	50	9	90	14	95	4	90	16	82
Little Rock, AR	55	17	99	20	95	4	90	21	83
Little Rock, AR	60	22	99	23	95	4	90	22	111
Little Rock, AR	100	23	99	25	101	4	90	22	111
Los Angeles, CA	5	0	31	0	27	0	27		
Los Angeles,	10	0	45	0	50	0	44	0	43

CA									
Los Angeles, CA	15	0	55	0	57	0	61	0	57
Los Angeles, CA	20	3	85	2	102	1	76	2	90
Los Angeles, CA	25	11	97	11	126	15	112	9	112
Los Angeles, CA	30	38	130	40	133	48	132	49	142
Los Angeles, CA	35	71	148	89	167	85	166	102	150
Los Angeles, CA	40	119	182	138	185	121	180	133	172
Los Angeles, CA	45	163	192	159	185	146	180	146	177
Los Angeles, CA	50	173	193	185	220	162	187	150	177
Los Angeles, CA	55	183	210	192	220	173	195	151	177
Los Angeles, CA	60	184	210	194	220	177	235	151	177
Los Angeles, CA	100	184	210	196	258	180	235	151	177
Louisville, KY	5	0	13	0	17	0	29	0	21
Louisville, KY	10	0	28	0	29	0	31	0	29
Louisville, KY	15	0	43	0	45	0	42	0	41
Louisville, KY	20	0	49	0	53	0	64	0	58
Louisville, KY	25	0	73	0	64	0	75	0	67
Louisville, KY	30	3	90	1	93	4	85	3	79
Louisville, KY	35	7	92	7	93	14	91	10	93
Louisville, KY	40	27	94	25	110	22	114	19	109
Louisville, KY	45	39	94	35	110	30	114	27	109
Louisville, KY	50	45	126	51	120	31	114	29	109
Louisville, KY	55	48	126	57	131	32	114	29	109
Louisville, KY	60	48	126	61	131	32	114	29	109
Louisville, KY	100	48	126	65	131	32	114	29	109
Madison, WI	5	0	16	0	9	0	29	0	11

Madison, WI	10	0	30	0	25	0	29	0	22
Madison, WI	15	0	35	0	33	0	38	0	26
Madison, WI	20	0	40	0	41	0	38	0	40
Madison, WI	25	0	48	0	50	0	52	0	44
Madison, WI	30	0	58	0	64	0	57	0	56
Madison, WI	35	0	65	0	66	0	62	0	61
Madison, WI	40	0	72	0	70	0	73	0	67
Madison, WI	45	0	75	2	82	1	83	1	78
Madison, WI	50	3	85	8	82	4	84	1	78
Madison, WI	55	8	96	11	90	10	84	1	78
Madison, WI	60	13	96	16	112	12	84	3	82
Madison, WI	100	14	96	36	121	15	103	3	82
Memphis, TN	5	0	12	0	20	0	24	0	15
Memphis, TN	10	0	12	0	21	0	24	0	22
Memphis, TN	15	0	30	0	32	0	32	0	32
Memphis, TN	20	0	48	0	46	0	55	0	43
Memphis, TN	25	0	61	0	63	0	58	0	51
Memphis, TN	30	0	63	0	69	1	82	1	78
Memphis, TN	35	3	80	2	86	4	84	1	78
Memphis, TN	40	10	105	6	86	9	84	5	86
Memphis, TN	45	22	105	23	104	14	99	17	100
Memphis, TN	50	33	110	41	108	22	108	31	100
Memphis, TN	55	39	110	64	108	25	108	45	112
Memphis, TN	60	40	110	75	126	26	108	48	112
Memphis, TN	100	40	110	77	126	26	108	48	112
Miami, FL	10	0	24	0	31	0	36	0	17
Miami, FL	15	0	45	0	47	0	45	0	48
Miami, FL	20	0	53	0	51	0	59	0	58
Miami, FL	25	0	68	0	65	0	73	0	71
Miami, FL	30	2	86	1	77	1	92	3	81
Miami, FL	35	3	97	5	101	1	92	4	81
Miami, FL	40	4	97	8	101	2	92	5	81
Miami, FL	45	8	97	9	101	6	94	6	91
Miami, FL	50	13	118	14	101	9	94	7	91
Miami, FL	55	15	118	15	113	11	94	7	91

Miami, FL	60	15	118	15	113	11	94	7	91
Miami, FL	100	15	118	17	113	11	94	7	91
Milwaukee, WI	5	0	32	0	43	0	25	0	4
Milwaukee, WI	10	0	32	0	43	0	25	0	24
Milwaukee, WI	15	0	33	0	43	0	44	0	37
Milwaukee, WI	20	0	48	0	46	0	46	0	47
Milwaukee, WI	25	0	59	0	60	0	58	0	57
Milwaukee, WI	30	0	59	0	67	0	65	0	67
Milwaukee, WI	35	2	77	0	73	0	67	0	69
Milwaukee, WI	40	5	85	0	75	2	79	1	81
Milwaukee, WI	45	13	94	4	96	7	96	9	97
Milwaukee, WI	50	18	94	8	96	17	98	14	97
Milwaukee, WI	55	23	111	20	111	23	114	18	97
Milwaukee, WI	60	27	133	28	116	25	114	19	97
Milwaukee, WI	100	38	200	54	136	30	131	23	111
Mobile, AL	5	0	10	0	3	0	22	0	2
Mobile, AL	10	0	25	0	22	0	26	0	36
Mobile, AL	15	0	53	0	44	0	39	0	70
Mobile, AL	20	0	60	0	57	0	56	0	70
Mobile, AL	25	0	65	0	75	0	75	0	70
Mobile, AL	30	2	87	0	75	1	78	0	73
Mobile, AL	35	6	87	0	75	3	84	5	88
Mobile, AL	40	7	87	2	88	4	84	11	88
Mobile, AL	45	7	87	4	89	4	84	13	88
Mobile, AL	50	8	87	6	89	4	84	15	98

Mobile, AL	55	8	87	8	89	5	84	15	98
Mobile, AL	60	8	87	8	89	5	84	15	98
Mobile, AL	100	8	87	8	89	5	84	15	98
Modesto, CA	5					0	10		
Modesto, CA	10	0	22	0	26	0	17	0	25
Modesto, CA	15	0	32	0	34	0	31	0	35
Modesto, CA	20	0	50	0	47	0	42	0	42
Modesto, CA	25	0	58	0	66	0	60	0	56
Modesto, CA	30	0	75	0	67	0	66	1	80
Modesto, CA	35	3	91	5	96	0	75	2	80
Modesto, CA	40	16	91	17	100	8	85	13	88
Modesto, CA	45	39	107	37	100	22	90	24	90
Modesto, CA	50	61	113	56	101	34	101	34	110
Modesto, CA	55	74	113	66	106	41	101	40	110
Modesto, CA	60	76	113	72	126	44	102	42	110
Modesto, CA	100	82	127	73	126	45	120	43	110
Muskegon, MI	5	0	23	0	32	0	29	0	27
Muskegon, MI	10	0	23	0	32	0	29	0	27
Muskegon, MI	15	0	33	0	36	0	33	0	33
Muskegon, MI	20	0	47	0	39	0	40	0	36
Muskegon, MI	25	0	54	0	60	0	61	0	52
Muskegon, MI	30	0	54	0	60	0	70	0	71
Muskegon, MI	35	0	72	0	68	0	70	1	78
Muskegon, MI	40	1	76	0	73	0	70	2	78
Muskegon, MI	45	1	76	2	88	2	80	2	78
Muskegon, MI	50	8	92	4	88	6	89	5	91
Muskegon,	55	16	103	12	110	11	95	9	97

MI									
Muskegon, MI	60	23	103	17	110	12	95	13	97
Muskegon, MI	100	36	135	36	157	23	139	25	114
Nashville, TN	5	0	16	0	15	0	18	0	25
Nashville, TN	10	0	30	0	30	0	28	0	28
Nashville, TN	15	0	60	0	40	0	41	0	51
Nashville, TN	20	0	66	0	47	0	59	0	51
Nashville, TN	25	2	82	0	61	1	76	0	59
Nashville, TN	30	5	86	0	73	4	83	0	75
Nashville, TN	35	16	109	2	92	10	104	2	89
Nashville, TN	40	31	109	13	92	19	112	10	95
Nashville, TN	45	32	109	33	112	22	112	28	109
Nashville, TN	50	33	123	50	123	24	112	41	114
Nashville, TN	55	33	123	59	123	25	112	47	114
Nashville, TN	60	33	123	68	123	25	112	47	114
Nashville, TN	100	33	123	76	126	25	112	47	114
New Orleans, LA	5					0	18		
New Orleans, LA	10	0	38	0	29	0	29	0	25
New Orleans, LA	15	0	46	0	46	0	43	0	43
New Orleans, LA	20	0	64	0	75	0	62	0	59
New Orleans, LA	25	1	89	0	75	0	73	1	80
New Orleans, LA	30	3	89	0	75	0	74	2	80
New Orleans, LA	35	11	98	3	88	2	93	7	83
New Orleans, LA	40	22	111	9	98	7	93	12	86
New Orleans, LA	45	32	111	21	101	7	93	14	86
New Orleans, LA	50	39	111	32	111	7	93	16	89

New Orleans, LA	55	43	111	38	111	8	109	16	89
New Orleans, LA	60	43	111	40	111	8	109	17	96
New Orleans, LA	100	43	111	41	111	8	109	17	96
New York City, NY	5	0	26	0	30	0	23	0	35
New York City, NY	10	0	42	0	45	0	52	0	70
New York City, NY	15	0	58	0	59	0	52	0	73
New York City, NY	20	0	63	0	69	0	71	0	73
New York City, NY	25	3	82	2	90	4	95	5	106
New York City, NY	30	8	86	8	120	11	95	10	106
New York City, NY	35	14	99	15	120	19	114	28	119
New York City, NY	40	29	118	21	120	38	114	38	119
New York City, NY	45	38	131	32	128	43	116	43	119
New York City, NY	50	44	144	47	156	49	116	54	147
New York City, NY	55	50	144	52	156	54	116	60	147
New York City, NY	60	56	153	59	156	55	116	60	147
New York City, NY	100	61	164	69	203	57	124	62	147
Oakland, CA	5								
Oakland, CA	10	0	30	0	35	0	46	0	58
Oakland, CA	15	0	53	0	62	0	61	0	65
Oakland, CA	20	0	71	0	75	1	86	1	82
Oakland, CA	25	9	88	11	91	6	86	5	105
Oakland, CA	30	23	116	19	91	12	101	8	105

Oakland, CA	35	28	116	19	91	16	101	10	105
Oakland, CA	40	32	116	22	96	17	101	10	105
Oakland, CA	45	33	116	24	96	17	101	10	105
Oakland, CA	50	33	116	24	96	17	101	10	105
Oakland, CA	55	33	116	24	96	17	101	10	105
Oakland, CA	60	33	116	24	96	17	101	10	105
Oakland, CA	100	33	116	24	96	17	101	10	105
Oklahoma City, OK	5					0	11	0	18
Oklahoma City, OK	10	0	34	0	29	0	25	0	23
Oklahoma City, OK	15	0	48	0	32	0	36	0	33
Oklahoma City, OK	20	0	59	0	46	0	50	0	40
Oklahoma City, OK	25	0	75	0	51	0	56	0	53
Oklahoma City, OK	30	0	75	0	69	0	60	1	76
Oklahoma City, OK	35	0	75	3	82	0	68	2	80
Oklahoma City, OK	40	0	75	4	82	5	89	3	81
Oklahoma City, OK	45	5	82	7	86	9	91	4	89
Oklahoma City, OK	50	11	88	14	88	12	91	10	89
Oklahoma City, OK	55	15	88	18	88	13	91	14	89
Oklahoma City, OK	60	16	99	24	89	15	91	15	94
Oklahoma City, OK	100	18	133	31	96	15	91	15	94
Omaha, NE	5	0	19			0	15	0	14
Omaha, NE	10	0	28	0	26	0	27	0	34
Omaha, NE	15	0	40	0	40	0	36	0	35
Omaha, NE	20	0	53	0	57	0	47	0	55
Omaha, NE	25	0	57	0	62	0	60	0	62

Omaha, NE	30	0	68	0	62	0	62	0	71
Omaha, NE	35	0	70	0	74	1	79	0	71
Omaha, NE	40	0	70	2	88	2	79	0	74
Omaha, NE	45	0	71	3	88	2	79	0	74
Omaha, NE	50	0	73	4	88	3	81	3	86
Omaha, NE	55	1	76	5	88	3	81	3	86
Omaha, NE	60	2	78	14	93	3	81	3	86
Omaha, NE	100	3	78	18	93	3	81	3	86
Orlando, FL	5					0	14		
Orlando, FL	10	0	25	0	31	0	30	0	23
Orlando, FL	15	0	42	0	40	0	37	0	38
Orlando, FL	20	0	52	0	52	0	52	0	50
Orlando, FL	25	0	57	0	58	0	63	0	65
Orlando, FL	30	0	75	0	69	0	73	0	75
Orlando, FL	35	0	75	1	78	1	82	2	81
Orlando, FL	40	0	75	2	86	2	82	4	85
Orlando, FL	45	1	85	3	86	6	85	6	85
Orlando, FL	50	5	99	6	86	9	87	10	96
Orlando, FL	55	6	99	7	86	14	105	12	96
Orlando, FL	60	9	99	8	86	16	105	12	96
Orlando, FL	100	10	99	9	86	16	105	13	96
Philadelphia, PA	5	0	26	0	28	0	28	0	30
Philadelphia, PA	10	0	41	0	37	0	42	0	39
Philadelphia, PA	15	0	53	0	48	0	58	0	59
Philadelphia, PA	20	0	58	0	55	0	61	0	61
Philadelphia, PA	25	1	86	0	72	3	93	0	65
Philadelphia, PA	30	1	86	0	73	5	93	2	86
Philadelphia, PA	35	8	108	5	83	10	101	12	112
Philadelphia, PA	40	19	108	11	90	28	108	26	112

Philadelphia, PA	45	30	110	20	140	43	108	38	112
Philadelphia, PA	50	41	116	33	140	50	132	46	112
Philadelphia, PA	55	51	136	45	143	55	132	54	123
Philadelphia, PA	60	59	141	51	143	58	132	56	123
Philadelphia, PA	100	68	141	71	168	60	132	58	127
Phoenix, AZ	5	0	19					0	13
Phoenix, AZ	10	0	33	0	35	0	34	0	36
Phoenix, AZ	15	0	60	0	47	0	43	0	56
Phoenix, AZ	20	0	64	0	58	0	52	0	66
Phoenix, AZ	25	0	71	1	94	0	70	0	70
Phoenix, AZ	30	11	80	6	94	3	87	6	94
Phoenix, AZ	35	21	90	19	95	7	87	18	102
Phoenix, AZ	40	26	92	32	95	13	87	27	105
Phoenix, AZ	45	27	92	33	95	25	94	36	105
Phoenix, AZ	50	27	92	34	95	31	94	36	105
Phoenix, AZ	55	27	92	34	95	31	94	36	105
Phoenix, AZ	60	27	92	34	95	31	94	36	105
Phoenix, AZ	100	27	92	34	95	31	94	36	105
Pittsburgh, PA	5	0	26	0	16	0	21	0	29
Pittsburgh, PA	10	0	35	0	52	0	38	0	37
Pittsburgh, PA	15	0	50	0	52	0	53	0	58
Pittsburgh, PA	20	0	51	0	52	0	54	0	59
Pittsburgh, PA	25	0	69	1	137	0	68	0	69
Pittsburgh, PA	30	1	76	2	137	0	72	0	70
Pittsburgh, PA	35	5	92	5	207	3	89	7	88
Pittsburgh,	40	17	99	10	207	15	97	14	100

PA									
Pittsburgh, PA	45	26	111	23	207	21	97	18	100
Pittsburgh, PA	50	34	116	31	207	24	117	19	101
Pittsburgh, PA	55	41	123	37	207	29	117	19	101
Pittsburgh, PA	60	41	123	46	207	29	117	20	101
Pittsburgh, PA	100	44	127	56	207	29	117	20	101
Portland, OR	5	0	16	0	23	0		0	19
Portland, OR	10	0	16	0	36	0	30	0	31
Portland, OR	15	0	33	0	42	0	43	0	46
Portland, OR	20	0	58	0	47	0	51	0	53
Portland, OR	25	0	58	0	67	0	60	0	65
Portland, OR	30	0	72	1	78	0	71	2	77
Portland, OR	35	1	76	6	95	1	79	6	113
Portland, OR	40	4	110	8	95	1	79	7	113
Portland, OR	45	7	110	10	131	1	79	11	113
Portland, OR	50	8	110	10	131	1	79	12	113
Portland, OR	55	8	110	10	131	1	79	13	113
Portland, OR	60	8	110	10	131	1	79	13	113
Portland, OR	100	8	110	10	131	1	79	13	113
Providence, RI	5	0	18	0	15	0	27	0	36
Providence, RI	10	0	18	0	26	0	27	0	36
Providence, RI	15	0	51	0	34	0	34	0	38
Providence, RI	20	0	55	0	60	0	55	0	53
Providence, RI	25	0	58	0	61	0	68	0	65
Providence, RI	30	0	64	1	76	0	72	0	74
Providence, RI	35	1	77	2	82	0	72	2	83

Providence, RI	40	4	81	7	106	3	85	3	83
Providence, RI	45	6	91	10	106	10	100	6	86
Providence, RI	50	13	105	20	109	11	100	10	92
Providence, RI	55	20	108	26	125	17	102	14	95
Providence, RI	60	22	108	32	125	20	102	17	106
Providence, RI	100	29	136	40	168	24	123	23	130
Raleigh, NC	5	0	42	0	19	0	17	0	20
Raleigh, NC	10	0	42	0	24	0	20	0	20
Raleigh, NC	15	0	42	0	35	0	27	0	34
Raleigh, NC	20	0	57	0	37	0	53	0	51
Raleigh, NC	25	0	64	0	52	0	65	0	55
Raleigh, NC	30	0	69	0	62	0	66	0	68
Raleigh, NC	35	1	76	0	67	3	86	3	84
Raleigh, NC	40	7	88	3	90	5	86	11	85
Raleigh, NC	45	17	88	7	92	13	99	18	90
Raleigh, NC	50	29	98	15	92	19	99	29	97
Raleigh, NC	55	37	98	27	96	22	99	32	97
Raleigh, NC	60	44	98	42	123	22	99	36	111
Raleigh, NC	100	54	113	54	131	22	99	37	111
Riverside, CA	10	0	35			0	40		
Riverside, CA	15	0	50	0	47	0	47	0	54
Riverside, CA	20	0	66	0	53	0	75	0	54
Riverside, CA	25	2	82	0	73	2	77	0	65
Riverside, CA	30	4	84	8	107	6	90	2	82
Riverside, CA	35	16	106	18	122	18	106	11	121
Riverside, CA	40	33	128	30	137	33	127	33	121
Riverside, CA	45	52	131	52	141	59	128	73	137
Riverside, CA	50	85	173	77	146	89	137	103	138
Riverside, CA	55	107	186	103	170	124	181	130	165
Riverside, CA	60	140	186	132	193	144	188	158	177

Riverside, CA	100	190	198	201	250	205	252	186	198
Rochester, NY	5	0	11					0	15
Rochester, NY	10	0	31	0	25	0	27	0	34
Rochester, NY	15	0	31	0	31	0	34	0	42
Rochester, NY	20	0	41	0	42	0	40	0	53
Rochester, NY	25	0	55	0	48	0	53	0	53
Rochester, NY	30	0	55	0	58	0	53	0	62
Rochester, NY	35	0	65	0	63	0	64	0	63
Rochester, NY	40	0	74	0	72	0	75	0	72
Rochester, NY	45	1	76	4	84	0	75	1	77
Rochester, NY	50	4	94	7	86	3	87	2	78
Rochester, NY	55	6	94	10	93	7	95	7	84
Rochester, NY	60	9	94	11	96	8	95	11	91
Rochester, NY	100	20	108	33	125	10	100	15	110
Sacramento, CA	5								
Sacramento, CA	10					0	27		
Sacramento, CA	15	0	42	0	37	0	58	0	48
Sacramento, CA	20	0	51	0	73	0	62	0	63
Sacramento, CA	25	0	57	0	73	1	80	1	77
Sacramento, CA	30	1	83	0	73	10	85	10	82

Sacramento, CA	35	11	83	4	80	42	96	26	96
Sacramento, CA	40	39	107	27	96	74	102	42	98
Sacramento, CA	45	75	108	55	115	88	110	66	121
Sacramento, CA	50	89	122	77	126	97	111	73	127
Sacramento, CA	55	96	122	87	130	98	133	75	137
Sacramento, CA	60	99	127	92	130	98	133	75	137
Sacramento, CA	100	99	127	94	130	98	133	75	137
Salt Lake City, UT	5	0	34	0	30	0	17	0	21
Salt Lake City, UT	10	0	34	0	30	0	38	0	37
Salt Lake City, UT	15	0	43	0	42	0	46	0	56
Salt Lake City, UT	20	0	56	1	82	0	55	0	56
Salt Lake City, UT	25	0	64	1	82	0	61	0	65
Salt Lake City, UT	30	0	72	1	82	0	70	0	75
Salt Lake City, UT	35	1	77	1	82	3	79	2	79
Salt Lake City, UT	40	10	84	9	92	5	87	4	84
Salt Lake City, UT	45	13	84	18	96	12	101	4	84
Salt Lake City, UT	50	15	89	18	96	12	101	4	84
Salt Lake City, UT	55	16	89	18	96	12	101	4	84
Salt Lake City, UT	60	16	89	18	96	12	101	4	84
Salt Lake	100	16	89	18	96	12	101	4	84

City, UT									
San Antonio, TX	5	0	13	0	8	0	17	0	14
San Antonio, TX	10	0	22	0	26	0	27	0	31
San Antonio, TX	15	0	37	0	46	0	41	0	48
San Antonio, TX	20	0	51	0	50	0	50	0	61
San Antonio, TX	25	0	58	0	63	0	63	0	73
San Antonio, TX	30	0	70	0	67	0	63	1	78
San Antonio, TX	35	1	78	1	92	2	81	5	90
San Antonio, TX	40	6	85	2	92	3	81	5	90
San Antonio, TX	45	8	88	6	92	6	81	5	90
San Antonio, TX	50	14	102	7	92	7	81	7	90
San Antonio, TX	55	18	106	7	92	8	81	9	95
San Antonio, TX	60	18	106	10	125	10	86	10	95
San Antonio, TX	100	18	106	11	125	12	101	10	95
San Diego, CA	5								
San Diego, CA	10								
San Diego, CA	15	0	52	0	33	0	42		
San Diego, CA	20	0	56	0	52	0	51	0	50
San Diego, CA	25	2	100	0	66	1	77	0	72
San Diego, CA	30	8	100	11	106	13	108	8	97

San Diego, CA	35	34	118	45	128	39	108	40	116
San Diego, CA	40	65	121	86	146	76	135	71	117
San Diego, CA	45	100	196	119	148	103	142	108	117
San Diego, CA	50	113	196	142	148	120	142	122	126
San Diego, CA	55	126	196	157	156	146	158	135	135
San Diego, CA	60	129	196	163	156	159	158	143	145
San Diego, CA	100	132	196	170	156	163	193	143	145
San Jose, CA	5								
San Jose, CA	10	0	30	0	35	0	32	0	48
San Jose, CA	15	0	44	0	60	0	53	0	56
San Jose, CA	20	0	54	0	66	0	66	0	70
San Jose, CA	25	1	77	2	80	2	79	3	87
San Jose, CA	30	9	87	7	93	8	81	6	87
San Jose, CA	35	28	103	19	96	14	102	14	96
San Jose, CA	40	42	113	29	101	19	102	18	96
San Jose, CA	45	53	113	34	101	21	102	19	96
San Jose, CA	50	61	113	36	101	23	102	19	96
San Jose, CA	55	63	113	38	101	23	102	19	96
San Jose, CA	60	64	113	38	101	23	102	19	96
San Jose, CA	100	64	113	38	101	23	102	19	96
Seattle, WA	5	0	10	0	16	0	15	0	21
Seattle, WA	10	0	26	0	32	0	31	0	30
Seattle, WA	15	0	47	0	45	0	41	0	41
Seattle, WA	20	0	56	0	50	0	46	0	52
Seattle, WA	25	0	65	0	61	0	52	0	61
Seattle, WA	30	0	72	1	76	0	70	2	83
Seattle, WA	35	2	80	5	83	0	70	4	83
Seattle, WA	40	3	80	8	93	3	83	5	83
Seattle, WA	45	6	96	9	100	7	83	10	93

Seattle, WA	50	7	113	9	100	7	83	12	98
Seattle, WA	55	7	113	9	100	7	83	13	107
Seattle, WA	60	7	113	9	100	7	83	14	115
Seattle, WA	100	7	113	9	100	7	83	14	115
Shreveport, LA	5	0	12	0	6	0	7	0	16
Shreveport, LA	10	0	34	0	26	0	24	0	26
Shreveport, LA	15	0	34	0	40	0	42	0	43
Shreveport, LA	20	0	47	0	46	0	54	0	51
Shreveport, LA	25	0	68	0	59	0	65	0	67
Shreveport, LA	30	0	68	0	75	1	77	0	68
Shreveport, LA	35	1	88	1	79	3	82	2	87
Shreveport, LA	40	9	94	4	80	4	90	7	96
Shreveport, LA	45	20	94	15	89	5	90	15	102
Shreveport, LA	50	37	94	25	101	9	98	19	102
Shreveport, LA	55	42	94	35	101	11	98	23	105
Shreveport, LA	60	43	94	40	101	11	98	24	105
Shreveport, LA	100	43	94	42	102	11	98	24	105
Spokane, WA	5	0		0		0		0	34
Spokane, WA	10	0		0		0		0	34
Spokane, WA	15	0		0		0		0	34
Spokane, WA	20	0		0		0		0	34
Spokane, WA	25	0		0		0		0	36
Spokane, WA	30	0		0		0		0	51
Spokane, WA	35	0		0		0		0	51
Spokane, WA	40	0		0		0		0	57

Spokane, WA	45	0		0		0		0	61
Spokane, WA	50	0		0		0		0	62
Spokane, WA	55	0		0		0		0	62
Spokane, WA	60	0		0		0		0	62
Spokane, WA	100	0		0		0		0	62
St Louis, MO	5	0	15	0	21	0	12	0	17
St Louis, MO	10	0	35	0	29	0	33	0	39
St Louis, MO	15	0	44	0	45	0	53	0	47
St Louis, MO	20	0	62	0	59	0	69	0	57
St Louis, MO	25	0	74	1	79	0	69	0	68
St Louis, MO	30	6	88	3	80	4	94	3	91
St Louis, MO	35	13	115	12	102	13	97	9	91
St Louis, MO	40	34	124	33	111	24	124	21	110
St Louis, MO	45	48	161	56	129	36	124	35	110
St Louis, MO	50	58	161	68	129	39	124	41	110
St Louis, MO	55	58	161	72	141	40	124	42	110
St Louis, MO	60	59	161	77	141	40	124	42	110
St Louis, MO	100	59	161	78	143	40	124	42	110
Stockton, CA	5	0	17	0	11	0	18	0	10
Stockton, CA	10	0	31	0	24	0	31	0	25
Stockton, CA	15	0	43	0	38	0	40	0	35
Stockton, CA	20	0	55	1	78	0	53	0	50
Stockton, CA	25	0	70	1	78	0	65	0	65
Stockton, CA	30	4	85	1	78	0	75	0	72
Stockton, CA	35	21	96	7	87	6	85	2	82
Stockton, CA	40	38	96	17	91	10	86	10	83
Stockton, CA	45	54	96	27	98	12	103	15	102
Stockton, CA	50	63	110	36	103	12	103	17	102
Stockton, CA	55	66	110	39	103	12	103	17	102
Stockton, CA	60	67	110	39	103	12	103	17	102
Stockton, CA	100	67	110	39	103	12	103	17	102
Syracuse, NY	5	0	16	0	31	0	26	0	25
Syracuse, NY	10	0	26	0	31	0	28	0	31
Syracuse, NY	15	0	61	0	38	0	35	0	43
Syracuse, NY	20	0	61	0	52	0	52	0	48

Syracuse, NY	25	0	61	0	52	0	62	0	59
Syracuse, NY	30	0	62	0	65	0	63	0	64
Syracuse, NY	35	0	66	0	73	1	76	0	67
Syracuse, NY	40	2	80	0	73	2	76	0	73
Syracuse, NY	45	2	80	2	84	3	79	1	84
Syracuse, NY	50	11	94	4	86	5	79	4	93
Syracuse, NY	55	11	94	11	98	7	92	5	93
Syracuse, NY	60	13	113	16	102	7	92	6	93
Syracuse, NY	100	21	113	29	112	8	92	8	93
Tampa, FL	5					0	10		
Tampa, FL	10	0	31	0	36	0	36	0	26
Tampa, FL	15	0	48	0	45	0	53	0	47
Tampa, FL	20	0	57	0	60	0	65	0	53
Tampa, FL	25	0	59	0	63	0	72	1	76
Tampa, FL	30	2	84	0	74	0	72	1	76
Tampa, FL	35	7	103	1	81	6	89	3	95
Tampa, FL	40	16	103	6	89	7	89	9	96
Tampa, FL	45	23	103	11	90	10	89	14	96
Tampa, FL	50	32	103	18	90	15	89	16	96
Tampa, FL	55	38	103	21	90	18	97	20	100
Tampa, FL	60	45	114	23	91	18	97	20	100
Tampa, FL	100	52	123	25	91	18	97	20	100
Toledo, OH	5	0	20	0	25	0	26	0	15
Toledo, OH	10	0	24	0	25	0	28	0	23
Toledo, OH	15	0	38	0	38	0	40	0	34
Toledo, OH	20	0	50	0	51	0	45	0	49
Toledo, OH	25	0	60	0	53	0	59	0	60
Toledo, OH	30	0	65	0	73	0	75	0	60
Toledo, OH	35	0	65	1	77	1	79	0	67
Toledo, OH	40	2	79	3	81	5	88	1	82
Toledo, OH	45	9	91	8	97	6	88	5	86
Toledo, OH	50	17	109	20	101	10	93	7	86
Toledo, OH	55	20	109	27	101	13	114	12	89
Toledo, OH	60	20	109	32	135	13	114	15	89
Toledo, OH	100	21	116	47	135	13	114	16	89

Tucson, AZ	10	0	20	0	26	0	30	0	27
Tucson, AZ	15	0	41	0	40	0	43	0	32
Tucson, AZ	20	0	56	0	48	0	46	0	49
Tucson, AZ	25	0	63	0	54	0	57	0	54
Tucson, AZ	30	0	71	0	68	0	66	0	61
Tucson, AZ	35	0	74	0	75	0	73	0	69
Tucson, AZ	40	2	81	0	75	0	74	0	74
Tucson, AZ	45	3	81	5	84	0	74	4	78
Tucson, AZ	50	3	81	5	84	2	79	10	86
Tucson, AZ	55	3	81	5	84	2	79	11	86
Tucson, AZ	60	3	81	5	84	2	79	12	86
Tucson, AZ	100	3	81	5	84	2	79	12	86
Tulsa, OK	5					0		0	12
Tulsa, OK	10	0	29	0	18	0	23	0	20
Tulsa, OK	15	0	36	0	40	0	37	0	34
Tulsa, OK	20	0	47	0	49	0	43	0	50
Tulsa, OK	25	0	62	0	57	0	61	0	52
Tulsa, OK	30	1	83	0	65	2	79	0	66
Tulsa, OK	35	3	83	0	73	4	79	0	68
Tulsa, OK	40	15	87	5	92	6	100	7	94
Tulsa, OK	45	28	95	15	98	13	102	14	96
Tulsa, OK	50	37	98	24	99	16	102	17	96
Tulsa, OK	55	44	98	36	99	17	102	23	128
Tulsa, OK	60	44	98	42	107	17	102	26	128
Tulsa, OK	100	44	98	49	110	18	102	30	128
Washington, DC	5	0	29	0	29	0	28	0	36
Washington, DC	10	0	42	0	48	0	43	0	49
Washington, DC	15	0	61	0	48	0	60	0	65
Washington, DC	20	0	64	0	63	0	68	0	65
Washington, DC	25	1	80	0	65	0	68	0	68
Washington,	30	4	80	1	82	2	82	1	87

DC									
Washington, DC	35	8	80	3	97	14	90	10	89
Washington, DC	40	24	90	9	108	28	107	27	89
Washington, DC	45	39	107	27	110	38	107	38	104
Washington, DC	50	56	128	38	119	46	107	44	104
Washington, DC	55	62	128	46	119	51	107	49	120
Washington, DC	60	73	128	56	128	54	126	51	120
Washington, DC	100	77	129	75	156	54	126	51	120
Wichita, KS	5							0	
Wichita, KS	10	0	31	0	28	0	23	0	28
Wichita, KS	15	0	38	0	39	0	32	0	32
Wichita, KS	20	0	54	0	51	0	51	0	55
Wichita, KS	25	0	62	0	58	0	64	0	55
Wichita, KS	30	0	74	1	77	0	75	0	62
Wichita, KS	35	0	74	1	77	2	81	0	70
Wichita, KS	40	1	81	5	84	2	81	0	70
Wichita, KS	45	2	81	9	84	4	81	1	77
Wichita, KS	50	2	81	9	84	4	81	1	77
Wichita, KS	55	2	81	13	101	4	81	7	95
Wichita, KS	60	2	81	14	101	4	81	9	95
Wichita, KS	100	2	81	18	101	4	81	10	95
Worcester, MA	5	0	24	0	12	0	22	0	32
Worcester, MA	10	0	28	0	26	0	26	0	32
Worcester, MA	15	0	34	0	37	0	41	0	38
Worcester, MA	20	0	47	0	42	0	44	0	45
Worcester, MA	25	0	53	0	54	0	59	0	56

Worcester, MA	30	0	65	0	61	0	59	0	56
Worcester, MA	35	0	65	0	66	0	63	0	65
Worcester, MA	40	0	72	3	79	0	69	0	68
Worcester, MA	45	0	72	3	79	2	85	0	70
Worcester, MA	50	5	90	5	98	4	87	0	74
Worcester, MA	55	6	90	7	98	6	96	2	102
Worcester, MA	60	7	90	16	124	7	96	4	102
Worcester, MA	100	8	90	23	124	8	96	6	102

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations (Continued)

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 1991	Highest 8-hour conc. (ppb) 1991	Number of exceedances of 75 ppb 1992	Highest 8-hour conc. (ppb) 1992	Number of exceedances of 75 ppb 1993	Highest 8-hour conc. (ppb) 1993	Number of exceedances of 75 ppb 1994	Highest 8-hour conc. (ppb) 1994
Akron, OH	5	0	35	0	32	0	31	0	18
Akron, OH	10	0	35	0	33	0	31	0	23
Akron, OH	15	0	35	0	45	0	39	0	38
Akron, OH	20	0	39	0	45	0	57	0	46
Akron, OH	25	0	53	0	57	0	57	0	59
Akron, OH	30	1	76	0	65	0	73	0	69
Akron, OH	35	3	93	0	71	0	73	1	76
Akron, OH	40	5	93	1	76	2	85	3	80
Akron, OH	45	14	100	5	87	6	91	8	88
Akron, OH	50	26	100	10	100	12	99	14	88
Akron, OH	55	34	103	12	102	17	99	18	90
Akron, OH	60	42	111	12	102	17	99	23	90
Akron, OH	100	48	119	12	102	17	99	23	90
Albuquerque, NM	10	0	30	0	25	0	32	0	31
Albuquerque, NM	15	0	35	0	41	0	37	0	39
Albuquerque, NM	20	0	52	0	48	0	48	0	49
Albuquerque, NM	25	0	62	0	56	0	57	0	59
Albuquerque, NM	30	0	62	0	68	0	67	0	68
Albuquerque, NM	35	0	70	0	68	0	72	1	86
Albuquerque, NM	40	1	76	1	76	0	75	3	86
Albuquerque, NM	45	3	78	1	76	0	75	6	86
Albuquerque, NM	50	3	78	1	76	0	75	7	86

Albuquerque, NM	55	3	78	1	76	0	75	7	86
Albuquerque, NM	60	3	78	1	76	0	75	7	86
Albuquerque, NM	100	3	78	1	76	0	75	7	86
Atlanta, GA	5	0	44	0	32	0	17	0	37
Atlanta, GA	10	0	44	0	32	0	18	0	37
Atlanta, GA	15	0	44	0	39	0	35	0	38
Atlanta, GA	20	0	65	0	49	0	50	0	56
Atlanta, GA	25	1	79	0	73	0	56	0	63
Atlanta, GA	30	8	92	4	85	1	78	2	81
Atlanta, GA	35	23	102	12	98	12	108	12	95
Atlanta, GA	40	40	110	25	110	38	116	21	106
Atlanta, GA	45	42	110	35	110	61	116	27	106
Atlanta, GA	50	42	110	36	110	72	116	28	106
Atlanta, GA	55	42	110	37	110	73	122	29	107
Atlanta, GA	60	42	110	38	110	74	137	30	110
Atlanta, GA	100	42	110	38	110	76	152	30	110
Austin, TX	5	0	23	0	21	0	8	0	9
Austin, TX	10	0	27	0	26	0	23	0	26
Austin, TX	15	0	43	0	33	0	31	0	36
Austin, TX	20	0	43	0	48	0	44	0	43
Austin, TX	25	0	52	0	51	0	47	0	52
Austin, TX	30	1	78	0	66	0	61	0	64

Austin, TX	35	1	78	0	75	0	63	0	64
Austin, TX	40	3	81	2	79	0	71	2	89
Austin, TX	45	5	81	6	79	1	82	3	89
Austin, TX	50	11	86	8	90	3	84	7	89
Austin, TX	55	12	86	10	90	6	87	9	89
Austin, TX	60	13	92	11	90	7	87	11	89
Austin, TX	100	13	92	11	90	7	87	11	89
Bakersfiel d, CA	5			0	10			0	33
Bakersfiel d, CA	10	0	23	0	23	0	38	0	41
Bakersfiel d, CA	15	0	32	0	37	0	40	0	43
Bakersfiel d, CA	20	0	46	0	48	0	50	0	48
Bakersfiel d, CA	25	0	56	0	65	0	56	0	58
Bakersfiel d, CA	30	0	62	0	67	0	67	0	74
Bakersfiel d, CA	35	0	70	1	81	0	73	0	74
Bakersfiel d, CA	40	5	85	11	92	6	86	2	88
Bakersfiel d, CA	45	25	100	28	92	24	92	16	88
Bakersfiel d, CA	50	55	100	69	101	51	108	43	107
Bakersfiel d, CA	55	87	117	101	110	88	111	79	117
Bakersfiel d, CA	60	113	120	127	111	110	116	106	118
Bakersfiel d, CA	100	139	120	134	115	135	125	130	129
Baltimore, MD	5	0	17	0	23	0	26	0	23
Baltimore, MD	10	0	38	0	37	0	37	0	34
Baltimore,	15	0	42	0	40	0	45	0	52

MD									
Baltimore, MD	20	0	56	0	53	0	54	0	52
Baltimore, MD	25	0	62	0	61	0	60	0	61
Baltimore, MD	30	0	68	1	77	0	64	0	67
Baltimore, MD	35	3	80	3	85	5	86	4	90
Baltimore, MD	40	11	91	12	95	17	93	13	98
Baltimore, MD	45	29	111	23	95	34	98	34	109
Baltimore, MD	50	56	111	34	104	49	108	47	109
Baltimore, MD	55	62	129	39	111	66	121	60	117
Baltimore, MD	60	71	131	39	111	74	121	60	117
Baltimore, MD	100	78	144	39	111	76	134	61	126
Baton Rouge, LA	5	0	20			0	18	0	15
Baton Rouge, LA	10	0	35	0	27	0	42	0	32
Baton Rouge, LA	15	0	43	0	44	0	62	0	72
Baton Rouge, LA	20	0	62	1	76	0	62	0	72
Baton Rouge, LA	25	0	71	1	76	0	69	0	72
Baton Rouge, LA	30	5	85	5	83	10	95	8	91
Baton Rouge, LA	35	11	97	16	90	15	95	17	93
Baton Rouge, LA	40	19	111	25	108	30	113	26	109
Baton Rouge, LA	45	26	113	37	108	36	113	31	109

Baton Rouge, LA	50	30	113	38	124	42	113	32	109
Baton Rouge, LA	55	30	113	38	124	42	113	33	109
Baton Rouge, LA	60	30	113	38	124	42	113	33	109
Baton Rouge, LA	100	30	113	38	124	42	113	33	109
Biddeford, ME	5	0	46	0	20	0		0	18
Biddeford, ME	10	0	46	0	20	0	30	0	18
Biddeford, ME	15	0	46	0	23	0	30	0	26
Biddeford, ME	20	0	46	0	34	0	35	0	32
Biddeford, ME	25	0	46	0	41	0	50	0	40
Biddeford, ME	30	0	55	0	55	0	50	0	47
Biddeford, ME	35	0	69	0	56	0	58	0	58
Biddeford, ME	40	1	78	0	63	0	68	0	70
Biddeford, ME	45	2	95	1	77	1	83	2	79
Biddeford, ME	50	5	95	4	86	5	85	5	83
Biddeford, ME	55	10	95	7	104	10	95	8	91
Biddeford, ME	60	16	111	11	104	15	110	14	91
Biddeford, ME	100	23	136	17	112	19	110	20	114
Birmingham, AL	5	0	44	0	12	0	20	0	18
Birmingham, AL	10	0	44	0	28	0	31	0	28
Birmingha	15	0	48	0	45	0	43	0	47

m, AL									
Birmingham, AL	20	0	59	0	61	0	58	0	61
Birmingham, AL	25	1	76	0	70	0	70	0	72
Birmingham, AL	30	10	92	5	90	4	94	1	76
Birmingham, AL	35	14	92	12	91	15	96	8	94
Birmingham, AL	40	17	92	18	100	21	114	11	99
Birmingham, AL	45	17	92	20	102	23	114	11	99
Birmingham, AL	50	17	92	22	104	23	114	11	99
Birmingham, AL	55	17	92	22	104	24	114	11	99
Birmingham, AL	60	17	92	22	104	24	114	11	99
Birmingham, AL	100	17	92	22	104	24	114	11	99
Boston, MA	5	0	23	0	28	0	29	0	25
Boston, MA	10	0	29	0	41	0	29	0	37
Boston, MA	15	0	41	0	41	0	40	0	65
Boston, MA	20	0	51	0	46	0	57	0	65
Boston, MA	25	0	55	0	65	0	67	0	70
Boston, MA	30	0	74	0	72	0	71	0	70
Boston, MA	35	0	75	1	83	2	87	1	78
Boston, MA	40	3	81	6	89	7	87	1	78
Boston, MA	45	7	118	11	89	14	93	6	84

Boston, MA	50	13	118	14	89	22	105	13	97
Boston, MA	55	19	123	16	107	22	105	18	118
Boston, MA	60	23	123	16	107	22	105	20	118
Boston, MA	100	28	135	20	107	24	123	21	118
Buffalo, NY	5	0	17	0	16	0	27	0	21
Buffalo, NY	10	0	34	0	32	0	32	0	23
Buffalo, NY	15	0	36	0	39	0	33	0	38
Buffalo, NY	20	0	41	0	46	0	47	0	44
Buffalo, NY	25	0	54	0	51	0	51	0	53
Buffalo, NY	30	0	63	0	58	0	64	0	55
Buffalo, NY	35	0	67	0	67	0	71	0	66
Buffalo, NY	40	1	76	1	76	0	74	1	78
Buffalo, NY	45	4	80	1	76	1	83	3	80
Buffalo, NY	50	8	80	2	76	1	83	6	87
Buffalo, NY	55	12	83	4	98	3	83	7	87
Buffalo, NY	60	14	94	5	98	4	85	12	87
Buffalo, NY	100	23	98	6	101	6	85	13	90
Cedar Rapids, IA	5	0	17	0	25	0	15	0	19
Cedar Rapids, IA	10	0	26	0	25	0	32	0	22
Cedar	15	0	34	0	30	0	32	0	38

Rapids, IA									
Cedar Rapids, IA	20	0	47	0	45	0	36	0	46
Cedar Rapids, IA	25	0	52	0	54	0	61	0	58
Cedar Rapids, IA	30	0	54	0	54	0	61	0	58
Cedar Rapids, IA	35	0	67	0	64	0	61	0	60
Cedar Rapids, IA	40	0	67	0	70	0	63	0	68
Cedar Rapids, IA	45	0	68	1	78	0	75	0	68
Cedar Rapids, IA	50	0	73	3	80	0	75	0	68
Cedar Rapids, IA	55	0	73	3	80	0	75	0	68
Cedar Rapids, IA	60	0	73	3	80	0	75	0	68
Cedar Rapids, IA	100	0	73	3	80	0	75	0	68
Charlotte, NC	5	0	13	0	13	0	10	0	11
Charlotte, NC	10	0	23	0	25	0	25	0	21
Charlotte, NC	15	0	39	0	34	0	36	0	45
Charlotte, NC	20	0	50	0	50	0	44	0	49
Charlotte, NC	25	0	75	0	65	0	65	0	60
Charlotte, NC	30	0	75	3	82	0	73	0	74
Charlotte, NC	35	3	83	7	88	0	74	0	74
Charlotte, NC	40	13	83	14	93	12	91	4	93
Charlotte, NC	45	30	93	22	94	23	95	10	98

Charlotte, NC	50	36	108	30	104	40	112	11	98
Charlotte, NC	55	38	108	31	104	43	112	14	102
Charlotte, NC	60	38	108	31	104	47	117	15	102
Charlotte, NC	100	38	108	31	104	48	141	15	102
Chicago, IL	5	0	20	0	21	0	31	0	17
Chicago, IL	10	0	31	0	36	0	42	0	40
Chicago, IL	15	0	51	0	50	0	47	0	44
Chicago, IL	20	0	68	0	59	0	56	0	63
Chicago, IL	25	0	75	1	78	0	65	0	71
Chicago, IL	30	2	93	1	78	3	104	3	90
Chicago, IL	35	15	113	4	106	5	104	11	94
Chicago, IL	40	29	128	11	111	11	108	19	94
Chicago, IL	45	39	128	15	111	13	108	23	143
Chicago, IL	50	46	128	18	111	15	108	25	143
Chicago, IL	55	54	128	20	140	15	108	27	143
Chicago, IL	60	56	128	20	140	15	108	27	143
Chicago, IL	100	57	128	20	140	15	108	27	143
Cincinnati, OH	5	0	30	0	34	0	30	0	22
Cincinnati, OH	10	0	32	0	34	0	37	0	31
Cincinnati,	15	0	42	0	51	0	42	0	49

OH									
Cincinnati, OH	20	0	59	0	57	0	52	0	63
Cincinnati, OH	25	0	69	0	71	0	74	0	67
Cincinnati, OH	30	7	92	1	78	2	82	1	76
Cincinnati, OH	35	16	98	4	92	10	89	14	92
Cincinnati, OH	40	27	114	7	92	23	93	25	106
Cincinnati, OH	45	38	114	9	92	31	103	34	106
Cincinnati, OH	50	42	124	9	92	35	104	39	111
Cincinnati, OH	55	46	124	9	92	36	105	41	111
Cincinnati, OH	60	46	124	9	92	36	105	41	111
Cincinnati, OH	100	46	124	9	92	36	105	41	111
Cleveland, OH	5	0	21	0	41	0	36	0	30
Cleveland, OH	10	0	28	0	42	0	36	0	32
Cleveland, OH	15	0	37	0	42	0	49	0	44
Cleveland, OH	20	0	57	0	45	0	53	0	55
Cleveland, OH	25	0	64	0	58	0	55	0	62
Cleveland, OH	30	0	68	0	65	0	71	1	77
Cleveland, OH	35	5	95	1	85	2	80	3	77
Cleveland, OH	40	15	99	2	92	6	92	8	90
Cleveland, OH	45	21	99	9	92	19	94	20	97

Cleveland, OH	50	29	105	12	92	29	104	32	103
Cleveland, OH	55	37	105	17	96	32	104	34	103
Cleveland, OH	60	43	115	19	97	36	108	38	108
Cleveland, OH	100	46	115	19	97	37	108	39	108
Colorado Springs, CO	5	0	11	0	31	0	20	0	20
Colorado Springs, CO	10	0	30	0	34	0	34	0	28
Colorado Springs, CO	15	0	38	0	39	0	42	0	43
Colorado Springs, CO	20	0	46	0	45	0	42	0	52
Colorado Springs, CO	25	0	50	0	51	0	50	0	52
Colorado Springs, CO	30	0	57	0	55	0	54	0	56
Colorado Springs, CO	35	0	60	0	61	0	59	0	63
Colorado Springs, CO	40	0	65	0	68	0	62	0	65
Colorado Springs, CO	45	0	65	0	68	0	62	0	65
Colorado Springs, CO	50	0	65	0	68	0	62	0	65

Colorado Springs, CO	55	0	67	0	68	0	62	0	65
Colorado Springs, CO	60	1	81	0	68	0	62	0	65
Colorado Springs, CO	100	2	81	0	68	0	62	0	65
Columbus, GA	5	0	34	0	10	0	2	0	
Columbus, GA	10	0	34	0	26	0	18	0	32
Columbus, GA	15	0	37	0	45	0	38	0	36
Columbus, GA	20	0	52	0	47	0	43	0	44
Columbus, GA	25	0	68	0	62	0	55	0	60
Columbus, GA	30	0	68	2	86	0	68	0	66
Columbus, GA	35	1	87	3	86	2	78	0	72
Columbus, GA	40	2	87	5	86	4	78	3	77
Columbus, GA	45	2	87	6	86	6	78	3	77
Columbus, GA	50	2	87	7	86	7	81	4	90
Columbus, GA	55	3	87	11	86	8	83	5	90
Columbus, GA	60	3	87	11	86	8	83	5	90
Columbus, GA	100	3	87	11	86	8	83	5	90
Columbus, OH	5	0	35	0	37	0	33	0	11
Columbus, OH	10	0	35	0	37	0	41	0	27

Columbus, OH	15	0	39	0	45	0	41	0	36
Columbus, OH	20	0	47	0	51	0	41	0	45
Columbus, OH	25	0	61	0	54	0	57	0	56
Columbus, OH	30	0	69	1	84	0	67	0	68
Columbus, OH	35	1	79	1	84	1	85	0	72
Columbus, OH	40	9	98	2	84	7	85	7	84
Columbus, OH	45	23	98	10	91	18	86	12	86
Columbus, OH	50	40	100	18	98	26	90	25	103
Columbus, OH	55	48	108	19	98	30	98	30	103
Columbus, OH	60	54	115	19	98	30	98	30	103
Columbus, OH	100	57	115	19	98	30	98	31	103
Corpus Christi, TX	5	0	13			0	7	0	12
Corpus Christi, TX	10	0	20	0	20	0	23	0	24
Corpus Christi, TX	15	0	31	0	40	0	37	0	41
Corpus Christi, TX	20	0	50	0	51	0	40	0	47
Corpus Christi, TX	25	0	60	0	59	0	52	0	50
Corpus Christi, TX	30	0	66	1	79	0	60	0	59
Corpus Christi, TX	35	0	68	1	79	0	65	0	66
Corpus Christi, TX	40	0	75	2	80	1	77	0	68
Corpus	45	1	76	4	82	1	77	1	78

Christi, TX									
Corpus Christi, TX	50	2	78	8	93	4	86	4	78
Corpus Christi, TX	55	3	86	8	93	7	104	5	79
Corpus Christi, TX	60	3	86	9	93	8	104	5	79
Corpus Christi, TX	100	3	86	9	93	8	104	8	102
Dallas/Ft Worth, TX	5	0	20	0	19	0	20	0	11
Dallas/Ft Worth, TX	10	0	32	0	32	0	35	0	37
Dallas/Ft Worth, TX	15	0	38	0	45	0	40	0	68
Dallas/Ft Worth, TX	20	0	55	0	54	0	48	0	68
Dallas/Ft Worth, TX	25	0	70	1	81	0	59	0	71
Dallas/Ft Worth, TX	30	1	86	1	81	1	77	2	81
Dallas/Ft Worth, TX	35	8	87	7	87	3	77	5	83
Dallas/Ft Worth, TX	40	17	97	19	96	7	86	12	96
Dallas/Ft Worth, TX	45	32	122	26	116	17	100	26	108
Dallas/Ft Worth, TX	50	37	122	33	121	24	116	38	108
Dallas/Ft Worth, TX	55	41	145	34	121	32	124	53	118
Dallas/Ft Worth, TX	60	41	145	34	121	33	124	58	118
Dallas/Ft Worth, TX	100	41	145	34	121	33	124	58	118
Dayton, OH	5	0	26	0	37	0	28	0	23
Dayton, OH	10	0	34	0	37	0	28	0	27

Dayton, OH	15	0	34	0	50	0	39	0	41
Dayton, OH	20	0	48	0	50	0	48	0	56
Dayton, OH	25	0	63	0	59	0	58	0	69
Dayton, OH	30	1	77	0	66	0	72	0	69
Dayton, OH	35	3	81	1	87	2	78	4	79
Dayton, OH	40	6	84	3	87	5	86	10	92
Dayton, OH	45	18	90	3	87	11	98	19	101
Dayton, OH	50	27	104	3	87	18	98	26	101
Dayton, OH	55	31	114	3	87	20	98	26	101
Dayton, OH	60	37	114	3	87	20	98	26	101
Dayton, OH	100	37	114	3	87	20	98	27	105
Denver, CO	5	0	28	0	29	0	30	0	32
Denver, CO	10	0	40	0	34	0	45	0	42
Denver, CO	15	0	44	0	52	0	45	0	47
Denver, CO	20	0	55	0	57	0	53	0	48
Denver, CO	25	0	61	0	64	0	59	0	52
Denver, CO	30	0	69	0	72	0	65	0	66
Denver, CO	35	2	79	1	80	1	77	2	77
Denver, CO	40	7	92	6	94	6	80	8	83
Denver,	45	9	92	7	94	16	92	11	88

CO									
Denver, CO	50	10	92	7	94	21	102	14	88
Denver, CO	55	10	92	7	94	21	102	14	88
Denver, CO	60	10	92	7	94	21	102	14	88
Denver, CO	100	10	92	7	94	21	102	14	88
Des Moines, IA	5	0	24	0	19	0	44	0	16
Des Moines, IA	10	0	31	0	25	0	44	0	35
Des Moines, IA	15	0	43	0	34	0	44	0	40
Des Moines, IA	20	0	52	0	40	0	50	0	52
Des Moines, IA	25	0	52	0	52	0	58	0	52
Des Moines, IA	30	0	63	0	64	0	73	0	54
Des Moines, IA	35	0	63	0	67	0	73	0	57
Des Moines, IA	40	0	63	0	71	0	73	0	57
Des Moines, IA	45	0	63	0	71	0	73	0	57
Des Moines, IA	50	0	63	5	80	0	73	0	57
Des Moines, IA	55	0	63	5	80	0	73	0	57
Des Moines, IA	60	0	63	5	80	0	73	0	57
Des Moines, IA	100	0	63	5	80	0	73	0	57
Detroit, MI	5	0	31	0	38	0	37	0	17
Detroit, MI	10	0	36	0	38	0	37	0	22
Detroit, MI	15	0	47	0	38	0	45	0	42
Detroit, MI	20	0	51	0	55	0	49	0	48

Detroit, MI	25	0	61	0	60	0	69	0	64
Detroit, MI	30	1	80	0	75	2	85	1	86
Detroit, MI	35	7	105	2	94	5	92	4	86
Detroit, MI	40	16	105	8	94	10	104	9	97
Detroit, MI	45	26	113	11	94	14	104	17	115
Detroit, MI	50	33	113	13	98	15	104	19	115
Detroit, MI	55	38	115	13	98	15	104	23	122
Detroit, MI	60	38	115	13	98	16	104	23	122
Detroit, MI	100	41	115	13	98	16	104	23	122
El Paso, TX	5	0	16	0	13	0	18	0	11
El Paso, TX	10	0	37	0	33	0	38	0	37
El Paso, TX	15	0	47	0	56	0	47	0	45
El Paso, TX	20	0	60	0	65	0	59	0	59
El Paso, TX	25	0	67	0	71	0	59	2	82
El Paso, TX	30	2	86	1	80	3	84	2	82
El Paso, TX	35	3	86	3	89	7	93	4	82
El Paso, TX	40	3	86	4	89	9	99	7	96
El Paso, TX	45	3	86	7	90	10	99	12	104
El Paso, TX	50	3	86	7	90	10	99	14	104
El Paso, TX	55	3	86	8	94	10	99	15	106
El Paso, TX	60	3	86	8	94	10	99	15	106
El Paso, TX	100	3	86	8	94	10	99	15	106
Evansville, IN	5	0	30	0	32	0	23	0	28
Evansville,	10	0	30	0	32	0	30	0	28

IN									
Evansville, IN	15	0	37	0	44	0	39	0	39
Evansville, IN	20	0	58	0	52	0	47	0	43
Evansville, IN	25	0	60	0	52	0	57	0	54
Evansville, IN	30	1	86	0	71	0	63	0	64
Evansville, IN	35	3	93	1	76	0	71	6	78
Evansville, IN	40	20	108	3	82	8	89	14	86
Evansville, IN	45	37	108	6	84	15	96	31	100
Evansville, IN	50	50	109	13	84	22	103	38	107
Evansville, IN	55	61	109	13	84	23	103	47	114
Evansville, IN	60	63	109	14	98	23	103	50	127
Evansville, IN	100	63	109	14	98	23	103	51	127
Fresno, CA	5	0	20	0	18	0	16	0	16
Fresno, CA	10	0	32	0	31	0	36	0	37
Fresno, CA	15	0	50	0	45	0	42	0	46
Fresno, CA	20	0	57	0	52	0	56	0	56
Fresno, CA	25	0	73	0	68	0	72	0	68
Fresno, CA	30	1	76	1	76	2	78	1	77
Fresno, CA	35	5	96	4	82	7	81	7	87
Fresno, CA	40	21	100	22	97	22	92	13	87

Fresno, CA	45	45	115	53	110	53	103	47	108
Fresno, CA	50	68	120	86	110	71	121	74	108
Fresno, CA	55	87	120	104	121	92	121	86	108
Fresno, CA	60	101	130	111	121	95	121	90	111
Fresno, CA	100	105	130	114	121	97	121	90	111
Ft. Wayne, IN	5	0	35	0	31	0	30	0	26
Ft. Wayne, IN	10	0	35	0	31	0	30	0	26
Ft. Wayne, IN	15	0	35	0	39	0	30	0	47
Ft. Wayne, IN	20	0	44	0	48	0	44	0	49
Ft. Wayne, IN	25	0	60	0	60	0	64	0	49
Ft. Wayne, IN	30	0	69	0	61	0	65	0	70
Ft. Wayne, IN	35	0	71	0	67	0	71	0	73
Ft. Wayne, IN	40	1	84	3	78	2	83	0	73
Ft. Wayne, IN	45	4	84	4	78	5	85	4	85
Ft. Wayne, IN	50	9	88	10	88	7	85	15	91
Ft. Wayne, IN	55	16	100	14	93	9	98	23	91
Ft. Wayne, IN	60	18	100	16	104	11	98	32	104
Ft. Wayne, IN	100	18	100	16	104	11	98	36	107
Grand Rapids, MI	5	0	31	0	37	0	38	0	21
Grand	10	0	31	0	37	0	38	0	21

Rapids, MI									
Grand Rapids, MI	15	0	40	0	39	0	38	0	35
Grand Rapids, MI	20	0	42	0	48	0	43	0	46
Grand Rapids, MI	25	0	52	0	51	0	47	0	59
Grand Rapids, MI	30	0	73	0	69	0	63	0	66
Grand Rapids, MI	35	1	85	0	70	0	67	0	74
Grand Rapids, MI	40	4	85	0	71	0	74	1	77
Grand Rapids, MI	45	8	87	3	86	1	77	2	77
Grand Rapids, MI	50	12	87	5	87	1	77	6	119
Grand Rapids, MI	55	16	90	7	92	3	83	12	119
Grand Rapids, MI	60	21	96	7	92	5	107	14	119
Grand Rapids, MI	100	28	121	8	92	6	107	16	119
Greensboro, NC	5	0	8	0	7	0	35	0	34
Greensboro, NC	10	0	19	0	17	0	35	0	34
Greensboro, NC	15	0	34	0	31	0	35	0	34
Greensboro, NC	20	0	49	0	52	0	41	0	37
Greensboro, NC	25	0	55	0	68	0	48	0	44
Greensboro, NC	30	0	68	0	68	0	61	0	65
Greensboro, NC	35	1	76	0	69	0	73	1	77
Greensboro, NC	40	4	92	0	73	3	79	2	86

Greensboro, NC	45	6	94	3	83	18	88	7	88
Greensboro, NC	50	8	94	3	83	32	94	16	93
Greensboro, NC	55	8	94	4	83	41	94	21	95
Greensboro, NC	60	9	94	4	83	43	96	28	95
Greensboro, NC	100	9	94	4	83	43	96	32	102
Honolulu, HI	5	0	36	0	10	0		0	21
Honolulu, HI	10	0	36	0	21	0		0	21
Honolulu, HI	15	0	36	0	35	0	24	0	27
Honolulu, HI	20	0	41	0	37	0	36	0	37
Honolulu, HI	25	0	46	0	46	0	42	0	41
Honolulu, HI	30	0	46	0	49	0	44	0	44
Honolulu, HI	35	0	46	0	49	0	51	0	49
Honolulu, HI	40	0	46	0	51	0	51	0	49
Honolulu, HI	45	0	46	0	51	0	51	0	54
Honolulu, HI	50	0	46	0	51	0	51	0	54
Honolulu, HI	55	0	46	0	51	0	51	0	54
Honolulu, HI	60	0	46	0	51	0	51	0	54
Honolulu, HI	100	0	46	0	51	0	51	0	54
Houston, TX	5	0	19	0	15	0	28	0	23
Houston,	10	0	42	0	37	0	35	0	40

TX									
Houston, TX	15	0	62	0	59	0	66	0	71
Houston, TX	20	3	78	0	74	1	90	0	73
Houston, TX	25	7	92	4	95	3	90	7	96
Houston, TX	30	19	106	13	107	7	96	21	119
Houston, TX	35	34	110	25	107	16	128	42	119
Houston, TX	40	46	143	37	112	30	128	56	128
Houston, TX	45	52	143	43	143	34	128	62	128
Houston, TX	50	57	159	47	159	39	128	66	137
Houston, TX	55	58	159	47	159	42	141	67	137
Houston, TX	60	59	159	48	159	42	141	69	137
Houston, TX	100	59	159	49	166	43	141	69	137
Huntsville, AL	5	0	45	0	11	0	2	0	27
Huntsville, AL	10	0	45	0	23	0	29	0	27
Huntsville, AL	15	0	45	0	40	0	35	0	43
Huntsville, AL	20	0	47	0	53	0	49	0	49
Huntsville, AL	25	0	56	0	56	0	58	0	62
Huntsville, AL	30	0	62	0	62	0	74	0	70
Huntsville, AL	35	1	79	0	69	0	74	0	74
Huntsville, AL	40	1	79	3	99	4	82	1	79

Huntsville, AL	45	5	85	9	99	8	93	1	79
Huntsville, AL	50	15	87	10	99	10	93	1	79
Huntsville, AL	55	19	87	13	99	12	93	2	101
Huntsville, AL	60	19	87	13	99	13	93	3	103
Huntsville, AL	100	19	87	13	99	16	119	3	103
Indianapolis, IN	5	0	32	0	29	0	32	0	23
Indianapolis, IN	10	0	32	0	29	0	32	0	23
Indianapolis, IN	15	0	32	0	42	0	32	0	29
Indianapolis, IN	20	0	41	0	42	0	49	0	40
Indianapolis, IN	25	0	58	0	56	0	60	0	63
Indianapolis, IN	30	0	67	0	64	0	66	0	73
Indianapolis, IN	35	0	75	0	74	0	75	0	75
Indianapolis, IN	40	6	84	1	76	8	90	6	84
Indianapolis, IN	45	14	107	5	101	13	90	21	90
Indianapolis, IN	50	23	107	8	101	18	93	30	104
Indianapolis, IN	55	27	107	12	101	25	94	39	104
Indianapolis, IN	60	29	107	12	101	26	94	44	104
Indianapolis, IN	100	29	107	13	101	28	102	45	104
Jackson, MS	5	0	37	0	19	0	16	0	34
Jackson,	10	0	37	0	19	0	21	0	34

MS									
Jackson, MS	15	0	37	0	31	0	35	0	42
Jackson, MS	20	0	47	0	43	0	47	0	44
Jackson, MS	25	0	53	0	50	0	53	0	52
Jackson, MS	30	0	61	0	62	0	61	0	62
Jackson, MS	35	1	76	0	65	0	63	0	67
Jackson, MS	40	1	76	1	78	0	66	0	73
Jackson, MS	45	2	82	1	78	3	84	5	84
Jackson, MS	50	3	82	2	78	4	84	6	84
Jackson, MS	55	3	82	3	78	4	84	6	84
Jackson, MS	60	3	82	3	78	4	84	6	84
Jackson, MS	100	3	82	3	78	4	84	6	84
Jacksonville, FL	5	0	12						
Jacksonville, FL	10	0	26	0	21	0	28	0	23
Jacksonville, FL	15	0	44	0	38	0	41	0	37
Jacksonville, FL	20	0	44	0	42	0	47	0	49
Jacksonville, FL	25	0	50	0	51	0	53	0	57
Jacksonville, FL	30	0	66	0	57	0	71	0	70
Jacksonville, FL	35	1	76	0	75	0	72	0	75
Jacksonville, FL	40	1	76	0	75	6	82	2	80

Jacksonville, FL	45	2	78	0	75	9	87	3	93
Jacksonville, FL	50	2	78	1	82	9	87	3	93
Jacksonville, FL	55	3	78	6	90	13	87	3	93
Jacksonville, FL	60	4	78	7	90	15	92	7	98
Jacksonville, FL	100	4	78	7	90	15	92	7	98
Johnstown, PA	5	0	21	0	20	0	22	0	11
Johnstown, PA	10	0	30	0	27	0	28	0	28
Johnstown, PA	15	0	42	0	37	0	40	0	38
Johnstown, PA	20	0	48	0	55	0	47	0	46
Johnstown, PA	25	0	60	0	57	0	56	0	58
Johnstown, PA	30	0	66	0	66	0	64	0	71
Johnstown, PA	35	0	73	0	69	0	70	0	74
Johnstown, PA	40	3	80	1	76	5	84	2	81
Johnstown, PA	45	7	87	1	76	9	84	6	86
Johnstown, PA	50	13	91	3	83	11	84	8	86
Johnstown, PA	55	13	91	3	83	13	92	9	91
Johnstown, PA	60	18	100	3	83	14	92	9	91
Johnstown, PA	100	19	100	3	83	14	92	9	91
Kansas City, MO	5	0	15	0	22	0	15	0	9
Kansas	10	0	41	0	32	0	37	0	28

City, MO									
Kansas City, MO	15	0	41	0	36	0	39	0	41
Kansas City, MO	20	0	53	0	51	0	49	0	58
Kansas City, MO	25	0	56	0	60	0	55	0	58
Kansas City, MO	30	0	68	0	64	0	64	0	66
Kansas City, MO	35	1	77	0	70	0	70	0	71
Kansas City, MO	40	6	89	0	71	4	82	2	83
Kansas City, MO	45	13	101	1	76	11	104	12	92
Kansas City, MO	50	21	101	3	81	14	104	18	96
Kansas City, MO	55	25	101	5	84	14	104	23	103
Kansas City, MO	60	27	101	7	102	14	104	24	103
Kansas City, MO	100	27	101	7	102	14	104	24	103
Kingston, NY	5	0		0		0	32	0	27
Kingston, NY	10	0	24	0	18	0	32	0	27
Kingston, NY	15	0	24	0	25	0	32	0	27
Kingston, NY	20	0	35	0	35	0	34	0	34
Kingston, NY	25	0	39	0	38	0	39	0	37
Kingston, NY	30	0	48	0	46	0	49	0	46
Kingston, NY	35	0	58	0	53	0	60	0	59
Kingston, NY	40	0	67	0	70	0	68	0	59

Kingston, NY	45	0	71	0	70	0	73	0	71
Kingston, NY	50	0	75	0	71	1	76	2	80
Kingston, NY	55	2	79	1	90	3	87	3	80
Kingston, NY	60	10	93	1	90	4	87	7	83
Kingston, NY	100	22	98	7	93	16	104	10	83
Knoxville, TN	5	0	7	0	39	0	6	0	
Knoxville, TN	10	0	18	0	39	0	23	0	18
Knoxville, TN	15	0	25	0	39	0	45	0	29
Knoxville, TN	20	0	55	0	55	0	45	0	58
Knoxville, TN	25	0	55	0	55	0	55	0	63
Knoxville, TN	30	0	68	0	73	0	65	1	77
Knoxville, TN	35	1	76	0	73	1	79	3	82
Knoxville, TN	40	1	76	1	82	2	79	11	93
Knoxville, TN	45	9	86	4	82	18	89	21	96
Knoxville, TN	50	23	90	9	94	35	100	30	96
Knoxville, TN	55	27	90	13	94	43	105	32	96
Knoxville, TN	60	28	96	15	94	45	105	32	96
Knoxville, TN	100	28	96	15	94	46	105	34	109
Lafayette, LA	5	0	20	0	8	0	16	0	10
Lafayette,	10	0	26	0	31	0	34	0	25

LA									
Lafayette, LA	15	0	36	0	38	0	39	0	36
Lafayette, LA	20	0	53	0	48	0	48	0	44
Lafayette, LA	25	0	57	0	59	0	56	0	58
Lafayette, LA	30	0	61	0	65	0	60	0	74
Lafayette, LA	35	0	74	0	68	0	70	0	74
Lafayette, LA	40	0	74	1	78	1	76	1	83
Lafayette, LA	45	1	77	2	82	1	76	4	83
Lafayette, LA	50	1	77	3	82	1	76	6	83
Lafayette, LA	55	1	77	4	82	2	80	8	83
Lafayette, LA	60	1	77	4	82	2	80	9	84
Lafayette, LA	100	1	77	5	110	2	80	10	94
Lake Charles, LA	5	0	10			0	9		
Lake Charles, LA	10	0	22	0	23	0	19	0	23
Lake Charles, LA	15	0	54	0	39	0	46	0	45
Lake Charles, LA	20	0	60	0	61	0	60	0	58
Lake Charles, LA	25	1	76	0	61	0	72	0	68
Lake	30	1	76	1	84	2	95	0	68

Charles, LA									
Lake Charles, LA	35	8	92	5	84	6	95	2	92
Lake Charles, LA	40	16	96	9	88	11	95	5	97
Lake Charles, LA	45	21	116	11	88	14	116	7	97
Lake Charles, LA	50	22	116	14	93	16	116	7	97
Lake Charles, LA	55	22	116	14	93	18	116	8	97
Lake Charles, LA	60	22	116	14	93	18	116	8	97
Lake Charles, LA	100	22	116	14	93	18	116	8	97
Las Vegas, NV	5	0	36	0	9	0	15	0	11
Las Vegas, NV	10	0	37	0	52	0	32	0	26
Las Vegas, NV	15	0	45	0	52	0	47	0	39
Las Vegas, NV	20	0	56	0	55	0	52	0	53
Las Vegas, NV	25	0	63	0	61	0	62	0	69
Las Vegas, NV	30	0	71	0	71	0	75	0	69
Las Vegas, NV	35	0	74	0	75	0	75	0	75
Las Vegas, NV	40	0	74	4	85	0	75	3	82

Las Vegas, NV	45	0	75	11	86	2	82	7	88
Las Vegas, NV	50	0	75	12	86	3	88	9	88
Las Vegas, NV	55	0	75	12	86	3	88	11	88
Las Vegas, NV	60	0	75	13	86	7	91	15	88
Las Vegas, NV	100	0	75	14	86	7	91	23	88
Lexington, KY	5	0	28	0	29	0	24	0	13
Lexington, KY	10	0	28	0	29	0	24	0	26
Lexington, KY	15	0	33	0	38	0	36	0	36
Lexington, KY	20	0	47	0	42	0	51	0	41
Lexington, KY	25	0	54	0	59	0	55	0	52
Lexington, KY	30	0	61	0	62	0	64	0	68
Lexington, KY	35	0	68	0	63	0	69	0	71
Lexington, KY	40	0	69	0	68	4	79	0	75
Lexington, KY	45	1	80	0	75	11	86	4	82
Lexington, KY	50	5	88	0	75	16	86	15	91
Lexington, KY	55	8	100	1	83	18	90	18	91
Lexington, KY	60	8	100	1	83	20	104	18	91
Lexington, KY	100	8	100	1	83	20	104	24	104
Lincoln, NE	5	0		0	32	0	20	0	37
Lincoln,	10	0		0	32	0	20	0	37

NE									
Lincoln, NE	15	0	25	0	32	0	29	0	37
Lincoln, NE	20	0	35	0	37	0	38	0	37
Lincoln, NE	25	0	43	0	41	0	41	0	47
Lincoln, NE	30	0	45	0	54	0	46	0	49
Lincoln, NE	35	0	54	0	57	0	50	0	55
Lincoln, NE	40	0	60	0	63	0	50	0	57
Lincoln, NE	45	0	60	0	69	0	52	0	71
Lincoln, NE	50	0	62	0	70	0	52	0	71
Lincoln, NE	55	0	62	0	70	0	52	0	71
Lincoln, NE	60	0	62	0	70	0	52	0	71
Lincoln, NE	100	0	62	0	70	0	52	0	71
Little Rock, AR	5	0	17	0	19	0	23	0	16
Little Rock, AR	10	0	26	0	31	0	26	0	21
Little Rock, AR	15	0	31	0	33	0	33	0	32
Little Rock, AR	20	0	43	0	38	0	43	0	38
Little Rock, AR	25	0	57	0	52	0	49	0	50
Little Rock, AR	30	0	64	0	57	0	57	0	58
Little Rock, AR	35	1	76	0	63	0	66	0	65
Little Rock, AR	40	1	76	0	69	0	69	3	81

Little Rock, AR	45	2	77	2	78	1	85	4	81
Little Rock, AR	50	5	78	3	78	4	88	7	87
Little Rock, AR	55	11	91	7	79	4	88	8	87
Little Rock, AR	60	14	91	7	79	4	88	8	87
Little Rock, AR	100	14	91	7	79	4	88	8	87
Los Angeles, CA	5	0	23	0	31	0	25	0	33
Los Angeles, CA	10	0	44	0	38	0	42	0	43
Los Angeles, CA	15	0	66	0	65	0	55	0	60
Los Angeles, CA	20	3	92	2	80	1	78	0	74
Los Angeles, CA	25	14	101	15	98	7	97	4	125
Los Angeles, CA	30	39	131	47	131	34	133	28	130
Los Angeles, CA	35	77	171	87	168	75	138	66	192
Los Angeles, CA	40	115	183	123	168	108	166	102	192
Los Angeles, CA	45	133	183	147	182	125	185	122	192
Los Angeles, CA	50	138	183	160	183	135	185	130	192

Los Angeles, CA	55	145	183	162	183	139	185	132	208
Los Angeles, CA	60	147	183	164	218	139	185	134	208
Los Angeles, CA	100	148	183	166	218	139	185	134	208
Louisville, KY	5	0	22	0	15	0	29	0	15
Louisville, KY	10	0	31	0	34	0	29	0	23
Louisville, KY	15	0	43	0	47	0	36	0	40
Louisville, KY	20	0	65	0	52	0	57	0	49
Louisville, KY	25	0	66	0	69	0	69	0	66
Louisville, KY	30	1	91	0	74	1	76	0	74
Louisville, KY	35	4	91	0	75	9	96	6	93
Louisville, KY	40	13	91	4	88	20	100	23	97
Louisville, KY	45	26	104	6	99	32	114	37	113
Louisville, KY	50	32	133	6	99	34	114	43	113
Louisville, KY	55	33	133	6	99	34	114	45	113
Louisville, KY	60	33	133	6	99	34	114	47	125
Louisville, KY	100	33	133	6	99	34	114	47	125
Madison, WI	5	0		0	37	0	32	0	25
Madison, WI	10	0	18	0	37	0	32	0	25

Madison, WI	15	0	27	0	37	0	32	0	31
Madison, WI	20	0	44	0	37	0	38	0	35
Madison, WI	25	0	51	0	44	0	40	0	47
Madison, WI	30	0	58	0	55	0	53	0	49
Madison, WI	35	0	64	0	62	0	54	0	55
Madison, WI	40	0	65	0	66	0	71	0	65
Madison, WI	45	1	78	0	72	0	71	0	65
Madison, WI	50	4	89	2	77	0	71	1	76
Madison, WI	55	9	94	6	79	1	82	1	76
Madison, WI	60	13	94	11	87	1	82	1	76
Madison, WI	100	14	94	13	87	1	82	1	76
Memphis, TN	5	0	19	0	17	0	11	0	22
Memphis, TN	10	0	22	0	24	0	25	0	26
Memphis, TN	15	0	43	0	36	0	43	0	34
Memphis, TN	20	0	56	0	42	0	51	0	47
Memphis, TN	25	0	58	0	65	0	69	0	68
Memphis, TN	30	0	72	1	80	0	69	2	84
Memphis, TN	35	2	83	3	90	5	96	5	85
Memphis, TN	40	6	95	8	104	17	107	16	90
Memphis,	45	14	108	16	104	22	107	27	90

TN									
Memphis, TN	50	25	108	24	104	27	107	33	95
Memphis, TN	55	29	108	27	104	29	107	36	95
Memphis, TN	60	30	108	27	104	29	107	37	97
Memphis, TN	100	30	108	27	104	29	107	37	97
Miami, FL	10	0	22	0	30	0	23	0	22
Miami, FL	15	0	43	0	49	0	41	0	41
Miami, FL	20	0	58	0	53	0	56	0	67
Miami, FL	25	0	59	1	80	0	63	0	67
Miami, FL	30	2	85	1	80	3	91	0	69
Miami, FL	35	2	85	3	80	4	91	0	69
Miami, FL	40	2	85	7	89	4	91	4	92
Miami, FL	45	4	85	9	97	6	91	5	92
Miami, FL	50	4	85	11	97	9	102	6	92
Miami, FL	55	4	85	11	97	11	102	6	92
Miami, FL	60	4	85	11	97	12	102	6	92
Miami, FL	100	4	85	11	97	13	102	6	92
Milwaukee, WI	5	0	29	0	37	0	38	0	25
Milwaukee, WI	10	0	31	0	37	0	38	0	28
Milwaukee, WI	15	0	59	0	40	0	38	0	38
Milwaukee, WI	20	0	59	0	43	0	48	0	45
Milwaukee, WI	25	0	66	0	58	0	48	0	49
Milwaukee, WI	30	0	70	0	66	0	56	0	66
Milwaukee, WI	35	1	76	0	75	0	66	0	68
Milwaukee, WI	40	5	89	1	77	0	75	3	86
Milwaukee	45	7	89	6	79	3	95	10	95

, WI									
Milwaukee, WI	50	22	111	7	82	8	101	14	95
Milwaukee, WI	55	31	121	13	96	10	101	16	95
Milwaukee, WI	60	36	121	15	97	11	101	20	148
Milwaukee, WI	100	41	142	15	97	12	101	20	148
Mobile, AL	5	0	10	0	33	0	12	0	11
Mobile, AL	10	0	34	0	33	0	36	0	26
Mobile, AL	15	0	53	0	37	0	42	0	50
Mobile, AL	20	0	61	0	54	0	60	0	53
Mobile, AL	25	0	62	0	65	0	61	0	64
Mobile, AL	30	1	99	0	71	0	68	0	69
Mobile, AL	35	1	99	0	73	0	75	1	77
Mobile, AL	40	1	99	3	85	0	75	1	77
Mobile, AL	45	1	99	4	85	0	75	1	77
Mobile, AL	50	1	99	5	85	0	75	2	78
Mobile, AL	55	1	99	5	85	0	75	3	78
Mobile, AL	60	1	99	5	85	0	75	3	78
Mobile, AL	100	1	99	5	85	0	75	3	78
Modesto, CA	5	0	10	0	15	0	16	0	19
Modesto, CA	10	0	28	0	28	0	27	0	33
Modesto, CA	15	0	38	0	36	0	40	0	39
Modesto, CA	20	0	45	0	56	0	47	0	53
Modesto, CA	25	0	65	0	63	0	55	0	64
Modesto, CA	30	1	78	2	81	0	62	0	68
Modesto, CA	35	6	84	6	83	1	76	2	78
Modesto, CA	40	18	95	14	88	8	83	10	82

Modesto, CA	45	32	95	29	90	16	94	21	94
Modesto, CA	50	38	95	40	102	21	94	28	100
Modesto, CA	55	40	102	42	102	27	106	31	100
Modesto, CA	60	40	102	42	102	28	108	31	100
Modesto, CA	100	40	102	42	102	28	108	31	100
Muskegon, MI	5	0	33	0	40	0	37	0	28
Muskegon, MI	10	0	33	0	40	0	37	0	28
Muskegon, MI	15	0	33	0	40	0	39	0	41
Muskegon, MI	20	0	45	0	47	0	47	0	51
Muskegon, MI	25	0	56	0	52	0	54	0	55
Muskegon, MI	30	0	71	0	66	0	65	0	61
Muskegon, MI	35	0	71	0	72	0	66	0	70
Muskegon, MI	40	1	79	1	82	0	74	1	87
Muskegon, MI	45	9	91	4	82	1	82	2	91
Muskegon, MI	50	15	93	5	84	3	82	5	91
Muskegon, MI	55	20	95	7	95	4	109	12	91
Muskegon, MI	60	25	105	8	99	6	109	14	91
Muskegon, MI	100	38	128	11	112	8	109	20	105
Nashville, TN	5	0	20	0	18	0	20	0	18
Nashville,	10	0	30	0	32	0	35	0	34

TN									
Nashville, TN	15	0	37	0	54	0	42	0	41
Nashville, TN	20	0	56	0	57	0	49	0	51
Nashville, TN	25	0	67	1	83	0	65	0	73
Nashville, TN	30	5	99	2	83	3	83	3	80
Nashville, TN	35	15	99	7	89	15	93	15	98
Nashville, TN	40	24	99	12	107	31	105	33	105
Nashville, TN	45	33	106	14	107	39	105	36	105
Nashville, TN	50	37	110	15	107	40	105	38	105
Nashville, TN	55	37	110	15	107	40	105	39	105
Nashville, TN	60	37	110	15	107	40	105	39	105
Nashville, TN	100	37	110	15	107	40	105	39	105
New Orleans, LA	5	0	12	0	13	0	16		
New Orleans, LA	10	0	30	0	34	0	25	0	26
New Orleans, LA	15	0	51	0	48	0	50	0	39
New Orleans, LA	20	0	61	0	61	0	57	0	53
New Orleans, LA	25	0	63	0	67	0	66	0	61
New	30	0	74	0	75	1	89	2	82

Orleans, LA									
New Orleans, LA	35	0	74	1	86	5	102	4	93
New Orleans, LA	40	1	91	3	90	7	102	8	93
New Orleans, LA	45	3	91	8	90	12	102	12	108
New Orleans, LA	50	5	91	11	90	15	102	16	108
New Orleans, LA	55	5	91	13	104	15	102	18	108
New Orleans, LA	60	5	91	13	104	15	102	18	108
New Orleans, LA	100	5	91	13	104	15	102	19	108
New York City, NY	5	0	26	0	32	0	34	0	35
New York City, NY	10	0	43	0	51	0	39	0	41
New York City, NY	15	1	76	0	71	0	62	0	55
New York City, NY	20	1	76	0	71	0	62	0	65
New York City, NY	25	2	78	0	71	0	70	1	87
New York City, NY	30	8	96	3	88	4	100	4	91
New York City, NY	35	25	96	18	107	14	100	12	107
New York City, NY	40	39	107	28	107	32	116	27	110

New York City, NY	45	58	130	36	107	43	116	42	110
New York City, NY	50	65	130	40	108	54	125	53	129
New York City, NY	55	69	130	42	108	60	125	56	129
New York City, NY	60	76	144	43	126	61	150	56	129
New York City, NY	100	81	144	43	126	61	150	57	129
Oakland, CA	5	0	25			0	20	0	26
Oakland, CA	10	0	45	0	37	0	37	0	45
Oakland, CA	15	0	56	0	48	0	50	0	60
Oakland, CA	20	1	77	0	70	0	70	1	77
Oakland, CA	25	6	92	3	82	5	82	5	82
Oakland, CA	30	13	92	6	88	9	82	6	88
Oakland, CA	35	13	92	9	92	11	95	8	97
Oakland, CA	40	13	92	10	92	13	102	8	97
Oakland, CA	45	13	92	10	92	13	102	8	97
Oakland, CA	50	13	92	10	92	13	102	8	97
Oakland, CA	55	13	92	10	92	13	102	8	97
Oakland, CA	60	13	92	10	92	13	102	8	97
Oakland, CA	100	13	92	10	92	13	102	8	97
Oklahoma City, OK	5	0	12	0	23	0	13	0	17
Oklahoma	10	0	22	0	35	0	31	0	26

City, OK									
Oklahoma City, OK	15	0	36	0	43	0	42	0	39
Oklahoma City, OK	20	0	45	0	52	0	52	0	46
Oklahoma City, OK	25	0	49	0	59	0	59	0	56
Oklahoma City, OK	30	0	66	0	62	0	61	0	64
Oklahoma City, OK	35	0	74	1	80	0	68	0	72
Oklahoma City, OK	40	0	74	3	97	1	76	2	78
Oklahoma City, OK	45	6	90	5	97	3	82	9	82
Oklahoma City, OK	50	6	90	6	97	4	82	13	86
Oklahoma City, OK	55	10	95	6	97	7	91	18	92
Oklahoma City, OK	60	11	95	7	97	7	91	21	92
Oklahoma City, OK	100	12	95	8	97	7	91	21	92
Omaha, NE	5	0	11	0	24	0	11	0	25
Omaha, NE	10	0	25	0	32	0	35	0	26
Omaha, NE	15	0	37	0	36	0	44	0	35
Omaha, NE	20	0	45	0	51	0	49	0	48
Omaha, NE	25	0	55	0	58	0	49	0	51
Omaha, NE	30	0	59	0	65	0	59	0	59
Omaha, NE	35	0	70	1	79	0	59	0	62
Omaha, NE	40	0	70	1	79	0	59	0	74

Omaha, NE	45	0	73	1	79	0	59	0	74
Omaha, NE	50	0	75	1	79	0	59	0	74
Omaha, NE	55	0	75	1	79	0	59	0	74
Omaha, NE	60	0	75	1	79	0	59	0	74
Omaha, NE	100	0	75	1	79	0	59	0	74
Orlando, FL	5							0	11
Orlando, FL	10	0	23	0	30	0	28	0	29
Orlando, FL	15	0	36	0	39	0	39	0	47
Orlando, FL	20	0	57	0	48	0	53	0	48
Orlando, FL	25	0	62	0	63	0	62	0	60
Orlando, FL	30	0	66	0	71	0	72	0	67
Orlando, FL	35	0	72	0	71	1	78	0	73
Orlando, FL	40	0	75	1	76	4	85	1	83
Orlando, FL	45	0	75	1	76	6	85	3	83
Orlando, FL	50	2	89	6	91	9	87	5	90
Orlando, FL	55	2	89	9	105	12	89	5	90
Orlando, FL	60	2	89	10	105	12	89	7	90
Orlando, FL	100	2	89	10	105	12	89	7	90
Philadelphia, PA	5	0	27	0	26	0	30	0	27
Philadelph	10	0	38	0	43	0	41	0	36

ia, PA									
Philadelphia, PA	15	0	44	0	46	0	63	0	51
Philadelphia, PA	20	0	56	0	58	0	63	0	61
Philadelphia, PA	25	0	66	0	70	0	69	0	69
Philadelphia, PA	30	1	77	1	78	2	93	0	72
Philadelphia, PA	35	4	97	10	86	11	96	2	79
Philadelphia, PA	40	27	110	16	87	31	121	13	101
Philadelphia, PA	45	43	110	30	101	42	121	34	115
Philadelphia, PA	50	58	120	36	103	55	121	47	115
Philadelphia, PA	55	66	120	41	109	69	124	55	120
Philadelphia, PA	60	69	122	42	126	74	124	55	120
Philadelphia, PA	100	77	140	43	126	76	127	55	120
Phoenix, AZ	5	0	28	0	14	0	21		
Phoenix, AZ	10	0	40	0	45	0	39	0	31
Phoenix, AZ	15	0	50	0	45	0	44	0	46
Phoenix, AZ	20	0	69	0	63	0	56	0	52
Phoenix, AZ	25	1	80	0	66	0	66	0	62
Phoenix, AZ	30	6	87	2	84	4	83	2	84
Phoenix, AZ	35	19	94	18	85	18	94	6	96
Phoenix, AZ	40	29	96	33	92	36	97	24	96

Phoenix, AZ	45	32	96	42	102	43	105	31	96
Phoenix, AZ	50	33	96	48	114	46	105	40	96
Phoenix, AZ	55	33	96	48	114	46	105	40	96
Phoenix, AZ	60	33	96	48	114	46	105	40	96
Phoenix, AZ	100	33	96	48	114	46	105	40	96
Pittsburgh, PA	5	0	30	0	25	0	30	0	19
Pittsburgh, PA	10	0	37	0	36	0	35	0	33
Pittsburgh, PA	15	0	52	0	44	0	43	0	40
Pittsburgh, PA	20	0	52	0	61	0	52	0	60
Pittsburgh, PA	25	0	63	0	69	0	66	0	65
Pittsburgh, PA	30	1	77	0	72	1	85	2	76
Pittsburgh, PA	35	7	88	0	75	10	87	4	84
Pittsburgh, PA	40	19	93	6	92	23	95	14	96
Pittsburgh, PA	45	30	99	10	98	29	95	25	96
Pittsburgh, PA	50	40	109	11	98	38	112	32	108
Pittsburgh, PA	55	46	109	11	98	38	112	38	110
Pittsburgh, PA	60	47	109	11	98	38	112	39	110
Pittsburgh, PA	100	47	109	11	98	38	112	39	110
Portland, OR	5	0	19	0	26	0	13	0	22
Portland,	10	0	24	0	28	0	26	0	27

OR									
Portland, OR	15	0	48	0	39	0	46	0	36
Portland, OR	20	0	52	0	49	0	46	0	51
Portland, OR	25	0	74	0	58	0	62	0	65
Portland, OR	30	0	74	0	71	0	67	0	65
Portland, OR	35	1	76	0	75	0	67	2	84
Portland, OR	40	3	100	4	96	1	78	3	84
Portland, OR	45	4	100	7	97	1	78	3	84
Portland, OR	50	4	100	9	98	1	78	4	111
Portland, OR	55	4	100	9	98	1	78	4	111
Portland, OR	60	4	100	9	98	1	78	4	111
Portland, OR	100	4	100	9	98	1	78	4	111
Providence, RI	5	0	32	0	10	0	42	0	32
Providence, RI	10	0	32	0	27	0	42	0	32
Providence, RI	15	0	52	0	52	0	42	0	36
Providence, RI	20	0	52	0	52	0	47	0	45
Providence, RI	25	0	57	0	62	0	52	0	54
Providence, RI	30	0	64	0	63	0	65	0	72
Providence, RI	35	0	69	1	80	0	75	1	83
Providence, RI	40	5	90	2	80	1	78	3	98

Providence, RI	45	14	101	7	87	7	94	8	98
Providence, RI	50	21	101	12	96	11	99	13	98
Providence, RI	55	24	104	16	96	12	100	22	108
Providence, RI	60	30	126	17	98	14	100	23	108
Providence, RI	100	34	144	19	105	15	107	25	123
Raleigh, NC	5	0	5	0	3	0	36	0	24
Raleigh, NC	10	0	5	0	22	0	36	0	24
Raleigh, NC	15	0	32	0	39	0	36	0	33
Raleigh, NC	20	0	51	0	48	0	41	0	45
Raleigh, NC	25	0	56	0	55	1	79	0	51
Raleigh, NC	30	0	66	1	80	1	79	0	64
Raleigh, NC	35	0	74	2	82	2	87	0	72
Raleigh, NC	40	1	87	5	82	3	87	3	79
Raleigh, NC	45	6	87	11	84	11	88	12	94
Raleigh, NC	50	9	90	11	84	23	102	21	94
Raleigh, NC	55	17	97	11	84	38	102	27	94
Raleigh, NC	60	18	97	11	84	40	102	32	94
Raleigh, NC	100	18	97	11	84	42	102	37	104
Riverside, CA	10	0	44			0	42		
Riverside,	15	0	64	0	48	0	60	0	45

CA									
Riverside, CA	20	1	77	0	60	1	76	0	61
Riverside, CA	25	1	77	0	65	3	87	0	61
Riverside, CA	30	4	90	2	88	11	103	0	72
Riverside, CA	35	19	112	20	93	22	116	8	101
Riverside, CA	40	27	136	37	113	41	120	26	118
Riverside, CA	45	50	175	62	135	76	132	48	122
Riverside, CA	50	82	175	103	163	108	143	73	135
Riverside, CA	55	111	175	132	163	140	158	107	159
Riverside, CA	60	138	175	162	195	163	195	136	179
Riverside, CA	100	179	203	191	211	188	195	172	208
Rochester, NY	5	0	16	0	30	0	22	0	9
Rochester, NY	10	0	34	0	30	0	29	0	26
Rochester, NY	15	0	34	0	35	0	47	0	32
Rochester, NY	20	0	42	0	43	0	47	0	40
Rochester, NY	25	0	45	0	48	0	49	0	47
Rochester, NY	30	0	54	0	49	0	60	0	56
Rochester, NY	35	0	70	0	66	0	71	0	63
Rochester, NY	40	0	70	0	66	1	81	0	72
Rochester, NY	45	1	78	0	69	2	81	2	86

Rochester, NY	50	6	87	1	91	3	82	7	86
Rochester, NY	55	9	93	2	91	4	84	9	86
Rochester, NY	60	11	93	4	91	6	84	9	86
Rochester, NY	100	25	114	5	91	7	84	10	86
Sacramento, CA	5								
Sacramento, CA	10	0	30	0	27	0	38	0	46
Sacramento, CA	15	0	48	0	51	0	48	0	50
Sacramento, CA	20	0	58	0	53	0	55	0	51
Sacramento, CA	25	0	66	0	65	0	67	0	63
Sacramento, CA	30	1	90	0	72	0	72	0	74
Sacramento, CA	35	20	98	4	85	9	90	10	87
Sacramento, CA	40	46	113	26	98	28	104	39	97
Sacramento, CA	45	70	140	57	101	39	118	60	106
Sacramento, CA	50	83	140	80	122	48	120	70	117
Sacramento, CA	55	83	140	89	122	48	120	73	121
Sacramento, CA	60	84	140	90	122	48	120	73	121
Sacramento, CA	100	84	140	90	122	48	120	73	121
Salt Lake City, UT	5	0	21	0	20	0	14	0	31
Salt Lake City, UT	10	0	39	0	33	0	19	0	31
Salt Lake	15	0	44	0	50	0	40	0	31

City, UT									
Salt Lake City, UT	20	0	57	0	52	0	55	0	41
Salt Lake City, UT	25	1	76	0	63	0	59	0	56
Salt Lake City, UT	30	2	76	1	76	0	69	2	79
Salt Lake City, UT	35	3	85	2	76	1	78	6	86
Salt Lake City, UT	40	6	89	2	76	2	85	13	94
Salt Lake City, UT	45	9	89	3	76	5	94	23	94
Salt Lake City, UT	50	9	89	3	76	5	94	25	94
Salt Lake City, UT	55	9	89	3	76	5	94	27	94
Salt Lake City, UT	60	9	89	3	76	5	94	28	94
Salt Lake City, UT	100	9	89	3	76	5	94	28	94
San Antonio, TX	5	0	20	0	22	0	14	0	13
San Antonio, TX	10	0	30	0	30	0	26	0	30
San Antonio, TX	15	0	38	0	37	0	50	0	42
San Antonio, TX	20	0	56	0	46	0	50	0	47
San Antonio, TX	25	0	61	0	57	0	63	0	61
San Antonio, TX	30	0	65	0	73	0	74	0	66

San Antonio, TX	35	0	71	0	73	1	78	1	76
San Antonio, TX	40	3	85	1	79	2	78	3	80
San Antonio, TX	45	9	86	2	79	8	91	6	92
San Antonio, TX	50	10	86	4	83	9	91	9	103
San Antonio, TX	55	10	86	5	89	9	91	9	103
San Antonio, TX	60	12	93	5	89	9	91	9	103
San Antonio, TX	100	12	93	5	89	9	91	11	103
San Diego, CA	5								
San Diego, CA	10	0	32	0	32	0	34	0	35
San Diego, CA	15	0	41	0	46	0	47	0	47
San Diego, CA	20	0	52	0	50	0	69	0	67
San Diego, CA	25	0	71	1	76	2	76	3	84
San Diego, CA	30	2	78	5	100	12	92	21	107
San Diego, CA	35	18	93	34	100	33	103	42	107
San Diego, CA	40	44	122	63	110	60	112	68	107
San Diego, CA	45	71	127	80	111	70	119	79	121

San Diego, CA	50	90	145	89	117	83	131	87	121
San Diego, CA	55	106	145	96	117	88	131	89	121
San Diego, CA	60	110	145	101	117	91	154	90	121
San Diego, CA	100	112	145	105	133	91	154	90	121
San Jose, CA	5	0	10					0	34
San Jose, CA	10	0	41	0	40	0	45	0	45
San Jose, CA	15	0	60	0	53	0	57	0	61
San Jose, CA	20	0	72	0	66	0	68	0	75
San Jose, CA	25	4	84	4	89	0	75	6	80
San Jose, CA	30	10	107	14	91	8	87	9	80
San Jose, CA	35	14	107	19	91	14	87	12	90
San Jose, CA	40	18	107	19	91	17	87	14	95
San Jose, CA	45	19	108	22	101	20	91	14	95
San Jose, CA	50	19	108	22	101	22	112	14	95
San Jose, CA	55	19	108	22	101	22	112	14	95
San Jose, CA	60	19	108	22	101	22	112	14	95
San Jose, CA	100	19	108	22	101	22	112	14	95
Seattle, WA	5	0	32	0	22	0	28	0	10
Seattle, WA	10	0	32	0	25	0	28	0	27
Seattle,	15	0	43	0	35	0	38	0	37

WA									
Seattle, WA	20	0	62	0	48	0	54	0	47
Seattle, WA	25	0	62	0	53	0	57	0	61
Seattle, WA	30	0	70	0	66	0	68	0	71
Seattle, WA	35	2	82	1	77	1	76	0	73
Seattle, WA	40	7	92	4	94	1	76	0	73
Seattle, WA	45	7	92	8	94	1	76	1	85
Seattle, WA	50	7	92	9	94	1	76	2	108
Seattle, WA	55	7	92	9	94	1	76	2	108
Seattle, WA	60	7	92	9	94	1	76	3	123
Seattle, WA	100	7	92	9	94	1	76	3	123
Shreveport, LA	5	0	20	0	10	0	12	0	6
Shreveport, LA	10	0	33	0	24	0	25	0	26
Shreveport, LA	15	0	41	0	40	0	35	0	37
Shreveport, LA	20	0	47	0	44	0	50	0	48
Shreveport, LA	25	0	61	0	63	0	66	0	56
Shreveport, LA	30	0	70	0	74	0	67	0	69
Shreveport, LA	35	1	85	0	75	0	74	1	76
Shreveport, LA	40	5	92	4	79	4	94	3	84
Shreveport, LA	45	7	92	9	86	9	95	7	85

Shreveport, LA	50	7	92	12	90	14	95	8	85
Shreveport, LA	55	7	92	12	90	18	104	10	87
Shreveport, LA	60	7	92	14	95	20	104	10	87
Shreveport, LA	100	7	92	14	95	20	104	10	87
Spokane, WA	5	0		0		0	39	0	24
Spokane, WA	10	0		0	14	0	39	0	24
Spokane, WA	15	0		0	24	0	39	0	24
Spokane, WA	20	0	20	0	34	0	39	0	29
Spokane, WA	25	0	46	0	41	0	39	0	37
Spokane, WA	30	0	46	0	46	0	43	0	44
Spokane, WA	35	0	53	0	57	0	50	0	50
Spokane, WA	40	0	58	0	57	0	53	0	59
Spokane, WA	45	0	67	0	64	0	58	0	63
Spokane, WA	50	0	67	0	69	0	67	0	70
Spokane, WA	55	0	67	0	69	0	67	0	72
Spokane, WA	60	0	67	0	69	0	67	0	72
Spokane, WA	100	0	67	0	69	0	67	0	72
St Louis, MO	5	0	41	0	20	0	18	0	14
St Louis, MO	10	0	42	0	35	0	36	0	43
St Louis,	15	0	44	0	52	0	44	0	43

MO									
St Louis, MO	20	0	51	0	60	0	55	0	60
St Louis, MO	25	0	65	0	66	0	62	0	64
St Louis, MO	30	4	86	1	104	4	85	1	76
St Louis, MO	35	15	102	4	112	7	93	13	96
St Louis, MO	40	28	107	14	112	15	110	34	104
St Louis, MO	45	38	107	24	112	18	110	43	128
St Louis, MO	50	44	112	29	112	20	110	49	128
St Louis, MO	55	46	112	29	112	20	110	50	128
St Louis, MO	60	47	112	29	112	20	110	51	131
St Louis, MO	100	47	112	29	112	20	110	51	131
Stockton, CA	5	0		0	12	0	13	0	22
Stockton, CA	10	0	25	0	27	0	25	0	33
Stockton, CA	15	0	40	0	41	0	42	0	40
Stockton, CA	20	0	47	0	55	0	56	0	56
Stockton, CA	25	0	55	0	60	0	61	0	66
Stockton, CA	30	0	71	0	66	0	71	0	69
Stockton, CA	35	6	85	2	80	3	82	3	80
Stockton, CA	40	16	90	14	90	8	82	12	87
Stockton, CA	45	25	95	21	90	15	97	19	101

Stockton, CA	50	30	95	22	90	15	97	19	101
Stockton, CA	55	30	95	23	90	15	97	19	101
Stockton, CA	60	30	95	23	90	15	97	19	101
Stockton, CA	100	30	95	23	90	15	97	19	101
Syracuse, NY	5	0	19	0	18	0	17		
Syracuse, NY	10	0	33	0	32	0	25	0	34
Syracuse, NY	15	0	39	0	36	0	32	0	35
Syracuse, NY	20	0	51	0	44	0	45	0	45
Syracuse, NY	25	0	58	0	55	0	61	0	52
Syracuse, NY	30	0	69	0	57	1	82	0	62
Syracuse, NY	35	0	70	0	66	1	82	0	65
Syracuse, NY	40	1	87	0	67	1	82	1	79
Syracuse, NY	45	4	87	2	90	2	89	3	81
Syracuse, NY	50	6	87	5	90	2	89	7	93
Syracuse, NY	55	13	91	7	90	3	89	7	93
Syracuse, NY	60	14	91	9	90	4	89	7	93
Syracuse, NY	100	25	102	10	92	7	95	8	93
Tampa, FL	5								
Tampa, FL	10	0	20	0	22	0	32	0	26
Tampa, FL	15	0	49	0	41	0	50	0	40
Tampa, FL	20	0	63	0	63	0	53	0	57
Tampa, FL	25	0	63	0	63	0	64	0	61

Tampa, FL	30	2	84	1	78	2	92	1	82
Tampa, FL	35	4	84	4	85	6	92	1	82
Tampa, FL	40	8	84	5	85	9	92	2	82
Tampa, FL	45	9	95	7	85	11	92	6	82
Tampa, FL	50	9	95	11	85	11	92	9	89
Tampa, FL	55	9	95	13	85	12	92	10	90
Tampa, FL	60	9	95	14	85	13	92	10	90
Tampa, FL	100	9	95	15	85	14	92	10	90
Toledo, OH	5	0	27	0	19	0	35	0	23
Toledo, OH	10	0	27	0	31	0	35	0	27
Toledo, OH	15	0	48	0	31	0	37	0	33
Toledo, OH	20	0	48	0	59	0	46	0	44
Toledo, OH	25	0	51	0	59	0	57	0	57
Toledo, OH	30	0	69	0	59	0	60	1	84
Toledo, OH	35	1	77	0	65	1	76	1	84
Toledo, OH	40	3	86	0	73	2	85	2	86
Toledo, OH	45	4	86	0	75	7	95	6	91
Toledo, OH	50	12	88	5	81	12	95	9	94
Toledo, OH	55	17	93	8	95	13	95	14	123
Toledo, OH	60	18	93	8	95	14	114	14	123
Toledo, OH	100	19	109	8	95	14	114	15	123
Tucson, AZ	10	0	28	0	28	0	20	0	29
Tucson, AZ	15	0	37	0	44	0	40	0	37

Tucson, AZ	20	0	46	0	46	0	48	0	46
Tucson, AZ	25	0	54	0	52	0	49	0	53
Tucson, AZ	30	0	60	0	63	0	63	0	62
Tucson, AZ	35	0	73	0	70	0	67	0	68
Tucson, AZ	40	1	76	1	78	1	77	0	74
Tucson, AZ	45	1	76	5	83	3	78	6	84
Tucson, AZ	50	2	77	6	89	10	82	9	84
Tucson, AZ	55	4	83	6	89	14	88	9	84
Tucson, AZ	60	4	83	6	89	14	88	10	85
Tucson, AZ	100	4	83	6	89	14	88	10	85
Tulsa, OK	5	0	11	0	17	0	12	0	14
Tulsa, OK	10	0	29	0	27	0	25	0	28
Tulsa, OK	15	0	41	0	40	0	44	0	42
Tulsa, OK	20	0	44	0	48	0	60	0	46
Tulsa, OK	25	0	53	0	67	0	60	0	72
Tulsa, OK	30	0	73	0	75	0	69	1	78
Tulsa, OK	35	1	77	2	83	0	74	2	85
Tulsa, OK	40	5	96	2	83	0	75	9	88
Tulsa, OK	45	11	96	4	83	1	88	16	96
Tulsa, OK	50	21	111	5	88	5	105	21	107
Tulsa, OK	55	29	111	6	88	7	105	25	107
Tulsa, OK	60	30	111	6	88	7	105	26	107
Tulsa, OK	100	30	111	7	88	7	105	26	107
Washington, DC	5	0	24	0	28	0	22	0	22
Washington, DC	10	0	60	0	53	0	48	0	39
Washingto	15	0	61	0	56	0	57	0	56

n, DC									
Washington, DC	20	0	65	0	63	0	59	0	57
Washington, DC	25	0	66	0	66	0	59	0	66
Washington, DC	30	1	76	2	80	3	89	0	73
Washington, DC	35	6	80	5	85	8	89	5	82
Washington, DC	40	27	102	17	100	24	100	25	98
Washington, DC	45	47	105	28	100	45	106	38	106
Washington, DC	50	64	112	35	116	62	115	49	116
Washington, DC	55	75	126	36	116	72	122	49	116
Washington, DC	60	79	146	36	116	73	122	49	116
Washington, DC	100	79	146	36	116	73	122	49	116
Wichita, KS	5			0					
Wichita, KS	10	0	20	0	24	0	20	0	18
Wichita, KS	15	0	33	0	35	0	36	0	31
Wichita, KS	20	0	41	0	43	0	50	0	38
Wichita, KS	25	0	47	0	50	0	50	0	51
Wichita, KS	30	0	57	0	56	0	51	0	61
Wichita, KS	35	0	64	0	61	0	61	0	66
Wichita, KS	40	1	81	0	61	0	67	0	71
Wichita, KS	45	2	81	0	70	0	67	0	75

Wichita, KS	50	3	87	0	70	0	67	0	75
Wichita, KS	55	4	87	0	73	0	67	1	76
Wichita, KS	60	6	87	1	83	0	67	1	76
Wichita, KS	100	6	87	1	83	0	67	1	76
Worcester, MA	5	0	10	0	6	0	30	0	
Worcester, MA	10	0	24	0	29	0	30	0	22
Worcester, MA	15	0	32	0	38	0	30	0	37
Worcester, MA	20	0	44	0	42	0	33	0	37
Worcester, MA	25	0	50	0	45	0	44	0	37
Worcester, MA	30	0	67	0	63	0	54	0	45
Worcester, MA	35	0	67	0	63	0	63	0	54
Worcester, MA	40	0	74	0	72	0	66	0	61
Worcester, MA	45	0	74	1	93	0	70	1	76
Worcester, MA	50	1	83	5	93	0	71	2	82
Worcester, MA	55	3	85	9	93	1	81	4	85
Worcester, MA	60	10	109	14	99	4	92	7	85
Worcester, MA	100	15	109	18	112	11	120	20	107

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations (Continued)

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 1995	Highest 8-hour conc. (ppb)1995	Number of exceedances of 75 ppb 1996	Highest 8-hour conc. (ppb)1996	Number of exceedances of 75 ppb 1997	Highest 8-hour conc. (ppb)1997	Number of exceedances of 75 ppb 1998	Highest 8-hour conc. (ppb)1998
Akron, OH	5	0	10	0	37	0	32	0	42
Akron, OH	10	0	28	0	37	0	32	0	42
Akron, OH	15	0	35	0	37	0	37	0	42
Akron, OH	20	0	49	0	45	0	51	0	46
Akron, OH	25	0	58	0	46	0	57	0	63
Akron, OH	30	0	68	0	61	0	65	0	64
Akron, OH	35	0	71	0	75	0	73	0	74
Akron, OH	40	1	76	3	85	1	80	2	78
Akron, OH	45	8	97	8	89	6	90	10	97
Akron, OH	50	12	99	15	89	8	90	19	97
Akron, OH	55	18	107	20	90	12	98	27	97
Akron, OH	60	20	107	22	99	13	98	33	116
Akron, OH	100	21	107	26	99	16	98	37	116
Albuquerque, NM	10	0	32	0	34	0	35	0	35
Albuquerque, NM	15	0	40	0	43	0	35	0	46
Albuquerque, NM	20	0	54	0	49	0	48	0	48
Albuquerque, NM	25	0	55	0	60	0	54	0	56
Albuquerque, NM	30	0	67	0	61	0	59	0	62
Albuquerque, NM	35	2	82	0	65	0	68	0	71
Albuquerque, NM	40	4	87	0	73	2	76	0	74
Albuquerque, NM	45	5	87	2	84	4	77	1	79
Albuquerque, NM	50	6	87	5	85	5	78	2	79
Albuquerqu	55	6	87	6	85	5	78	3	79

e, NM									
Albuquerque, NM	60	6	87	6	85	5	78	3	79
Albuquerque, NM	100	6	87	6	85	5	78	3	79
Atlanta, GA	5	0	45	0	27	0	43	0	47
Atlanta, GA	10	0	45	0	27	0	43	0	47
Atlanta, GA	15	0	45	0	40	0	43	0	47
Atlanta, GA	20	0	61	0	51	0	52	0	60
Atlanta, GA	25	0	74	0	70	0	66	0	69
Atlanta, GA	30	1	84	1	79	1	79	5	81
Atlanta, GA	35	14	98	7	88	14	107	16	98
Atlanta, GA	40	37	118	19	97	33	129	37	98
Atlanta, GA	45	50	124	32	105	54	129	53	111
Atlanta, GA	50	61	129	41	119	57	129	67	113
Atlanta, GA	55	65	133	48	122	58	129	82	134
Atlanta, GA	60	65	133	49	122	58	129	90	141
Atlanta, GA	100	65	133	49	122	58	129	91	141
Austin, TX	5	0	14	0	13	0	13	0	11
Austin, TX	10	0	26	0	21	0	27	0	26
Austin, TX	15	0	34	0	34	0	34	0	34
Austin, TX	20	0	43	0	58	0	41	0	41
Austin, TX	25	0	57	0	58	0	53	0	54
Austin, TX	30	0	62	0	58	0	64	0	73
Austin, TX	35	0	69	1	78	0	64	0	73
Austin, TX	40	2	88	2	80	0	70	0	74
Austin, TX	45	8	88	2	80	5	82	0	75
Austin, TX	50	16	90	2	80	9	85	2	79
Austin, TX	55	25	90	5	84	17	91	9	92
Austin, TX	60	28	91	5	84	19	91	10	92
Austin, TX	100	29	97	5	84	20	97	13	95
Bakersfield, CA	5			0	32				
Bakersfield, CA	10	0	41	0	47	0	55	0	42
Bakersfield,	15	0	54	0	48	0	55	0	47

CA									
Bakersfield, CA	20	0	68	0	53	0	55	0	52
Bakersfield, CA	25	0	68	0	63	1	89	0	60
Bakersfield, CA	30	0	70	0	74	1	89	1	79
Bakersfield, CA	35	1	81	0	74	2	89	1	79
Bakersfield, CA	40	5	83	2	81	5	89	4	86
Bakersfield, CA	45	21	98	11	86	23	90	19	100
Bakersfield, CA	50	49	104	29	97	53	105	33	105
Bakersfield, CA	55	89	134	61	106	74	105	55	105
Bakersfield, CA	60	111	134	88	119	91	105	70	124
Bakersfield, CA	100	136	134	131	137	100	118	110	136
Baltimore, MD	5	0	19	0	19	0	13	0	16
Baltimore, MD	10	0	29	0	41	0	32	0	27
Baltimore, MD	15	0	40	0	41	0	53	0	42
Baltimore, MD	20	0	57	0	51	0	54	0	43
Baltimore, MD	25	0	62	0	66	0	64	0	57
Baltimore, MD	30	1	79	0	74	0	74	0	71
Baltimore, MD	35	4	79	4	78	1	76	3	85
Baltimore, MD	40	12	113	12	89	7	87	11	88
Baltimore, MD	45	27	113	25	92	17	93	24	100

Baltimore, MD	50	41	113	41	107	29	114	43	105
Baltimore, MD	55	49	113	47	110	33	114	60	111
Baltimore, MD	60	56	116	48	110	42	122	68	122
Baltimore, MD	100	61	147	48	110	48	148	70	122
Baton Rouge, LA	5	0	15	0	28			0	14
Baton Rouge, LA	10	0	37	0	34	0	28	0	34
Baton Rouge, LA	15	0	47	0	59	0	46	0	44
Baton Rouge, LA	20	1	77	0	59	0	59	0	61
Baton Rouge, LA	25	1	77	2	85	2	81	0	72
Baton Rouge, LA	30	4	97	4	85	9	83	4	90
Baton Rouge, LA	35	18	99	11	97	22	101	14	94
Baton Rouge, LA	40	34	101	23	97	44	102	25	98
Baton Rouge, LA	45	49	114	32	117	56	115	32	110
Baton Rouge, LA	50	56	120	35	120	57	115	39	126
Baton Rouge, LA	55	58	120	36	120	57	115	39	126
Baton Rouge, LA	60	58	120	36	120	57	115	39	126
Baton Rouge, LA	100	58	120	36	120	57	115	39	126
Biddeford, ME	5	0	20	0	14			0	28
Biddeford, ME	10	0	20	0	18	0	29	0	28
Biddeford,	15	0	31	0	41	0	29	0	29

ME									
Biddeford, ME	20	0	42	0	41	0	38	0	41
Biddeford, ME	25	0	49	0	46	0	49	0	53
Biddeford, ME	30	0	60	0	53	0	64	0	64
Biddeford, ME	35	1	81	0	68	0	64	0	64
Biddeford, ME	40	1	81	1	77	0	72	1	79
Biddeford, ME	45	2	85	3	79	2	90	3	80
Biddeford, ME	50	5	87	5	82	5	90	5	97
Biddeford, ME	55	11	107	9	84	8	101	7	97
Biddeford, ME	60	12	107	13	94	11	103	10	97
Biddeford, ME	100	17	126	15	97	15	119	13	116
Birmingham, AL	5	0	16	0	22	0	16	0	34
Birmingham, AL	10	0	34	0	38	0	27	0	34
Birmingham, AL	15	0	48	0	45	0	43	0	37
Birmingham, AL	20	0	51	0	61	0	63	0	57
Birmingham, AL	25	0	64	0	74	1	79	0	71
Birmingham, AL	30	1	78	1	83	8	81	3	80
Birmingham, AL	35	6	88	8	93	22	94	11	88
Birmingham, AL	40	21	105	14	93	27	107	22	107
Birmingham, AL	45	38	126	19	108	29	107	32	107

Birmingham, AL	50	47	126	22	111	29	107	37	117
Birmingham, AL	55	50	126	24	121	29	107	38	117
Birmingham, AL	60	50	126	25	121	29	107	38	117
Birmingham, AL	100	50	126	25	121	29	107	38	117
Boston, MA	5	0	22	0	30	0	19	0	26
Boston, MA	10	0	30	0	35	0	34	0	28
Boston, MA	15	0	53	0	40	0	41	0	38
Boston, MA	20	0	65	0	50	0	50	0	50
Boston, MA	25	0	65	0	64	0	70	0	59
Boston, MA	30	0	71	0	70	0	70	0	69
Boston, MA	35	2	90	0	70	1	76	2	82
Boston, MA	40	7	92	3	90	2	87	6	99
Boston, MA	45	11	92	7	91	6	87	12	99
Boston, MA	50	14	92	11	91	11	102	15	99
Boston, MA	55	20	105	15	91	15	102	18	116
Boston, MA	60	21	105	15	91	16	110	18	116
Boston, MA	100	23	116	15	91	18	121	21	116
Buffalo, NY	5	0	13	0	22	0	15	0	21
Buffalo, NY	10	0	25	0	29	0	27	0	35
Buffalo, NY	15	0	41	0	37	0	38	0	39
Buffalo, NY	20	0	47	0	41	0	46	0	42
Buffalo, NY	25	0	55	0	55	0	52	0	54
Buffalo, NY	30	0	65	0	60	0	58	0	60
Buffalo, NY	35	0	70	0	67	0	60	0	66
Buffalo, NY	40	1	79	0	70	0	71	0	70
Buffalo, NY	45	2	79	2	81	0	71	7	90
Buffalo, NY	50	6	95	2	81	1	82	9	90
Buffalo, NY	55	8	95	4	88	1	82	12	98
Buffalo, NY	60	9	95	6	95	1	82	18	98
Buffalo, NY	100	12	101	6	95	5	89	26	98
Cedar Rapids, IA	5	0	11	0	18	0	29	0	12

Cedar Rapids, IA	10	0	25	0	30	0	29	0	29
Cedar Rapids, IA	15	0	30	0	30	0	37	0	37
Cedar Rapids, IA	20	0	45	0	35	0	38	0	43
Cedar Rapids, IA	25	0	56	0	43	0	53	0	52
Cedar Rapids, IA	30	0	56	0	49	0	60	0	58
Cedar Rapids, IA	35	0	63	0	54	0	61	0	63
Cedar Rapids, IA	40	0	66	0	61	0	65	0	68
Cedar Rapids, IA	45	0	68	0	63	0	74	0	68
Cedar Rapids, IA	50	0	68	0	68	0	74	0	71
Cedar Rapids, IA	55	0	68	0	68	0	74	0	71
Cedar Rapids, IA	60	0	68	0	68	0	74	0	71
Cedar Rapids, IA	100	0	68	0	68	0	74	0	71
Charlotte, NC	5	0		0	20	0	11	0	9
Charlotte, NC	10	0	21	0	22	0	24	0	20
Charlotte, NC	15	0	32	0	29	0	40	0	44
Charlotte, NC	20	0	55	0	51	0	40	0	53
Charlotte, NC	25	0	61	0	53	0	52	0	61
Charlotte, NC	30	0	69	0	67	1	78	0	69
Charlotte, NC	35	0	74	2	77	5	86	5	82
Charlotte,	40	8	82	7	83	10	87	17	93

NC									
Charlotte, NC	45	24	98	23	92	20	93	25	103
Charlotte, NC	50	32	98	35	105	28	107	47	105
Charlotte, NC	55	34	98	40	105	39	109	62	118
Charlotte, NC	60	35	108	41	105	41	110	68	118
Charlotte, NC	100	35	108	42	124	42	110	69	118
Chicago, IL	5	0	28	0	31	0	28	0	25
Chicago, IL	10	0	34	0	47	0	38	0	46
Chicago, IL	15	0	53	0	48	0	45	0	55
Chicago, IL	20	0	55	0	57	0	55	0	59
Chicago, IL	25	1	80	1	85	0	62	0	68
Chicago, IL	30	4	90	2	92	0	75	2	78
Chicago, IL	35	14	112	12	92	5	90	8	87
Chicago, IL	40	17	112	17	121	12	91	20	92
Chicago, IL	45	26	120	23	121	20	118	35	121
Chicago, IL	50	38	120	26	121	21	118	37	121
Chicago, IL	55	41	120	27	122	22	118	38	121
Chicago, IL	60	42	120	27	122	23	120	38	121
Chicago, IL	100	44	129	28	122	23	120	38	121
Cincinnati, OH	5	0	21	0	39	0	21	0	49
Cincinnati, OH	10	0	30	0	39	0	33	0	49
Cincinnati, OH	15	0	47	0	46	0	47	0	50
Cincinnati, OH	20	0	67	0	62	0	54	0	55
Cincinnati, OH	25	0	73	0	66	0	73	0	67
Cincinnati, OH	30	2	80	1	76	0	75	1	79
Cincinnati, OH	35	15	92	10	95	3	92	12	86

Cincinnati, OH	40	36	104	24	95	17	104	23	97
Cincinnati, OH	45	42	104	34	108	26	104	40	116
Cincinnati, OH	50	46	121	36	114	28	111	50	116
Cincinnati, OH	55	47	121	38	114	28	111	51	116
Cincinnati, OH	60	48	121	38	114	28	111	51	116
Cincinnati, OH	100	48	121	38	114	28	111	51	116
Cleveland, OH	5	0	14	0	46	0	40	0	46
Cleveland, OH	10	0	34	0	46	0	40	0	46
Cleveland, OH	15	0	42	0	46	0	40	0	46
Cleveland, OH	20	0	61	0	49	0	56	0	58
Cleveland, OH	25	0	61	0	60	0	56	0	61
Cleveland, OH	30	1	77	0	63	0	75	1	76
Cleveland, OH	35	2	80	3	82	1	77	2	76
Cleveland, OH	40	10	96	5	82	5	82	3	81
Cleveland, OH	45	20	96	8	86	9	90	9	87
Cleveland, OH	50	32	105	15	91	13	90	16	88
Cleveland, OH	55	33	105	22	114	17	97	26	103
Cleveland, OH	60	36	107	26	114	22	107	31	109
Cleveland, OH	100	39	111	30	114	26	108	37	117

Colorado Springs, CO	5	0	25	0	29	0	28	0	18
Colorado Springs, CO	10	0	32	0	40	0	29	0	42
Colorado Springs, CO	15	0	38	0	42	0	40	0	42
Colorado Springs, CO	20	0	47	0	48	0	43	0	49
Colorado Springs, CO	25	0	52	0	55	0	49	0	56
Colorado Springs, CO	30	0	60	0	57	0	62	0	57
Colorado Springs, CO	35	0	61	0	60	0	62	0	60
Colorado Springs, CO	40	0	65	0	65	0	62	0	65
Colorado Springs, CO	45	0	70	0	65	0	62	0	65
Colorado Springs, CO	50	0	70	0	65	0	62	0	73
Colorado Springs, CO	55	0	70	0	65	0	62	0	73
Colorado Springs, CO	60	0	70	0	65	0	62	0	73
Colorado Springs, CO	100	0	70	0	65	0	62	0	73
Columbus, GA	5	0	32	0	15	0	33	0	23
Columbus, GA	10	0	32	0	15	0	33	0	23
Columbus, GA	15	0	37	0	46	0	36	0	58
Columbus, GA	20	0	48	0	46	0	52	0	58
Columbus, GA	25	0	69	0	58	0	55	0	63

Columbus, GA	30	0	75	0	68	0	62	0	71
Columbus, GA	35	0	75	1	77	0	72	1	78
Columbus, GA	40	5	89	1	77	4	78	5	87
Columbus, GA	45	13	99	2	79	10	90	7	89
Columbus, GA	50	19	99	5	83	13	90	15	97
Columbus, GA	55	22	99	9	88	14	96	19	104
Columbus, GA	60	22	99	12	88	14	96	21	104
Columbus, GA	100	22	99	12	88	14	96	21	104
Columbus, OH	5	0	16	0	45	0	30	0	46
Columbus, OH	10	0	24	0	45	0	33	0	46
Columbus, OH	15	0	43	0	45	0	40	0	46
Columbus, OH	20	0	60	0	51	0	49	0	51
Columbus, OH	25	0	67	0	70	0	60	0	57
Columbus, OH	30	2	79	0	70	0	67	0	65
Columbus, OH	35	2	79	1	76	2	83	2	79
Columbus, OH	40	4	81	8	87	7	92	10	87
Columbus, OH	45	14	89	13	92	13	92	25	94
Columbus, OH	50	24	95	26	92	19	92	36	96
Columbus, OH	55	30	97	33	92	24	99	45	108
Columbus,	60	31	108	34	98	24	99	53	108

OH									
Columbus, OH	100	34	115	38	117	24	99	53	108
Corpus Christi, TX	5					0	28	0	8
Corpus Christi, TX	10	0	25	0	12	0	28	0	23
Corpus Christi, TX	15	0	30	0	29	0	35	0	47
Corpus Christi, TX	20	0	39	0	45	0	45	0	51
Corpus Christi, TX	25	0	45	0	45	0	49	0	53
Corpus Christi, TX	30	0	65	0	55	0	58	0	60
Corpus Christi, TX	35	0	73	0	61	0	60	0	68
Corpus Christi, TX	40	0	73	0	71	1	77	0	74
Corpus Christi, TX	45	3	88	2	86	2	77	2	82
Corpus Christi, TX	50	6	88	4	86	5	87	6	86
Corpus Christi, TX	55	9	90	4	86	5	87	6	86
Corpus Christi, TX	60	13	102	7	93	6	87	8	98
Corpus Christi, TX	100	19	102	7	93	7	87	9	98
Dallas/Ft Worth, TX	5	0	13	0	23	0	16	0	13
Dallas/Ft Worth, TX	10	0	27	0	38	0	38	0	33
Dallas/Ft Worth, TX	15	0	38	0	39	0	49	0	45
Dallas/Ft Worth, TX	20	0	54	0	50	0	54	0	52
Dallas/Ft Worth, TX	25	0	56	0	54	0	68	0	56

Dallas/Ft Worth, TX	30	0	70	1	80	0	75	2	80
Dallas/Ft Worth, TX	35	2	91	3	81	1	79	5	82
Dallas/Ft Worth, TX	40	11	91	12	89	9	106	11	96
Dallas/Ft Worth, TX	45	28	102	24	95	33	106	25	101
Dallas/Ft Worth, TX	50	46	116	34	116	43	114	46	102
Dallas/Ft Worth, TX	55	57	120	42	116	51	114	57	109
Dallas/Ft Worth, TX	60	65	125	48	116	54	114	63	126
Dallas/Ft Worth, TX	100	69	125	49	116	54	114	67	126
Dayton, OH	5	0	18	0	38	0	27	0	50
Dayton, OH	10	0	46	0	38	0	28	0	50
Dayton, OH	15	0	46	0	38	0	34	0	50
Dayton, OH	20	0	46	0	54	0	55	0	50
Dayton, OH	25	0	66	0	59	0	55	0	59
Dayton, OH	30	0	71	0	69	0	67	0	66
Dayton, OH	35	3	78	0	69	0	74	0	74
Dayton, OH	40	7	87	7	102	3	85	8	88
Dayton, OH	45	9	87	13	102	13	103	17	89
Dayton, OH	50	10	87	27	102	16	103	25	98
Dayton, OH	55	15	103	28	102	21	103	30	106
Dayton, OH	60	15	103	32	105	23	106	33	106
Dayton, OH	100	17	103	35	112	23	106	33	106
Denver, CO	5	0	18	0	26	0	29	0	24
Denver, CO	10	0	37	0	53	0	42	0	47
Denver, CO	15	0	44	0	75	0	47	0	48
Denver, CO	20	0	50	0	75	0	48	0	48
Denver, CO	25	0	55	0	75	0	58	0	53
Denver, CO	30	0	62	0	75	0	63	0	62
Denver, CO	35	0	71	0	75	0	75	1	76
Denver, CO	40	7	88	5	84	2	76	3	81

Denver, CO	45	10	88	12	84	6	83	9	84
Denver, CO	50	11	88	18	88	8	83	16	85
Denver, CO	55	11	88	19	88	8	83	20	102
Denver, CO	60	11	88	19	88	8	83	25	103
Denver, CO	100	11	88	19	88	8	83	25	103
Des Moines, IA	5	0	16	0	22	0	31	0	14
Des Moines, IA	10	0	26	0	32	0	31	0	23
Des Moines, IA	15	0	36	0	36	0	37	0	35
Des Moines, IA	20	0	43	0	40	0	46	0	48
Des Moines, IA	25	0	52	0	53	0	49	0	49
Des Moines, IA	30	0	63	0	71	0	62	0	64
Des Moines, IA	35	0	63	0	71	0	66	0	64
Des Moines, IA	40	0	73	1	76	0	66	0	73
Des Moines, IA	45	2	81	1	76	0	66	0	73
Des Moines, IA	50	3	81	1	76	0	68	0	73
Des Moines, IA	55	4	81	1	76	0	68	0	73
Des Moines, IA	60	4	81	1	76	0	68	0	73
Des Moines, IA	100	4	81	1	76	0	68	0	73
Detroit, MI	5	0	21	0	42	0	29	0	38
Detroit, MI	10	0	30	0	42	0	29	0	38
Detroit, MI	15	0	62	0	42	0	43	0	38
Detroit, MI	20	0	62	0	56	0	50	0	49
Detroit, MI	25	0	74	0	71	0	60	0	65
Detroit, MI	30	1	76	0	71	1	76	0	72
Detroit, MI	35	3	80	9	92	4	90	7	98

Detroit, MI	40	8	96	15	92	9	94	14	98
Detroit, MI	45	13	109	17	92	12	100	22	99
Detroit, MI	50	17	112	20	92	16	100	27	102
Detroit, MI	55	18	112	24	97	19	110	32	111
Detroit, MI	60	19	112	25	97	20	110	32	111
Detroit, MI	100	19	112	26	97	20	110	33	111
El Paso, TX	5	0	14					0	17
El Paso, TX	10	0	36	0	40	0	32	0	37
El Paso, TX	15	0	53	0	46	0	49	0	46
El Paso, TX	20	0	58	0	65	0	57	0	69
El Paso, TX	25	0	63	0	70	0	64	0	69
El Paso, TX	30	1	86	2	86	0	73	0	72
El Paso, TX	35	3	87	3	86	3	96	0	72
El Paso, TX	40	5	95	8	95	3	96	7	96
El Paso, TX	45	6	95	10	95	5	96	12	108
El Paso, TX	50	6	95	11	95	5	96	13	108
El Paso, TX	55	7	99	12	95	5	96	14	108
El Paso, TX	60	8	105	12	95	5	96	14	108
El Paso, TX	100	8	105	12	95	5	96	14	108
Evansville, IN	5	0	20	0	44	0	28	0	38
Evansville, IN	10	0	26	0	44	0	28	0	38
Evansville, IN	15	0	39	0	44	0	36	0	38
Evansville, IN	20	0	43	0	46	0	63	0	48
Evansville, IN	25	0	71	0	58	0	63	0	60
Evansville, IN	30	0	71	0	70	0	68	0	70
Evansville, IN	35	1	79	1	82	0	68	2	81
Evansville, IN	40	5	87	4	82	3	84	7	85
Evansville, IN	45	15	93	11	85	13	94	17	93

Evansville, IN	50	29	93	21	90	20	94	29	100
Evansville, IN	55	38	101	31	102	27	109	36	113
Evansville, IN	60	42	108	34	102	29	109	40	113
Evansville, IN	100	43	108	35	103	29	109	41	119
Fresno, CA	5	0	17	0	17	0	24		
Fresno, CA	10	0	36	0	42	0	35	0	27
Fresno, CA	15	0	48	0	46	0	42	0	43
Fresno, CA	20	0	54	0	52	0	54	0	54
Fresno, CA	25	0	66	0	61	0	74	0	55
Fresno, CA	30	0	73	0	72	1	76	0	68
Fresno, CA	35	6	87	3	86	11	86	3	80
Fresno, CA	40	20	95	14	91	27	99	9	92
Fresno, CA	45	40	95	38	102	56	111	23	94
Fresno, CA	50	69	108	66	103	87	111	42	109
Fresno, CA	55	87	113	92	111	104	111	64	111
Fresno, CA	60	91	117	112	123	114	115	74	117
Fresno, CA	100	92	126	115	123	119	127	90	134
Ft. Wayne, IN	5	0	14	0	41	0	40	0	42
Ft. Wayne, IN	10	0	17	0	41	0	40	0	42
Ft. Wayne, IN	15	0	20	0	41	0	40	0	42
Ft. Wayne, IN	20	0	36	0	47	0	40	0	42
Ft. Wayne, IN	25	0	61	0	55	0	71	0	52
Ft. Wayne, IN	30	0	68	0	67	0	71	0	59
Ft. Wayne, IN	35	0	72	0	75	0	71	1	76
Ft. Wayne, IN	40	0	74	3	82	1	79	4	77
Ft. Wayne,	45	3	86	6	89	2	79	5	77

IN									
Ft. Wayne, IN	50	11	96	15	89	6	89	11	92
Ft. Wayne, IN	55	17	99	21	94	10	90	15	96
Ft. Wayne, IN	60	23	104	22	97	11	90	19	96
Ft. Wayne, IN	100	25	104	24	97	13	90	19	96
Grand Rapids, MI	5	0	22	0	42	0	10	0	24
Grand Rapids, MI	10	0	22	0	42	0	33	0	24
Grand Rapids, MI	15	0	34	0	52	0	33	0	24
Grand Rapids, MI	20	0	45	0	52	0	46	0	41
Grand Rapids, MI	25	0	52	0	55	0	63	0	57
Grand Rapids, MI	30	0	65	0	58	0	66	0	60
Grand Rapids, MI	35	0	69	0	66	0	71	1	78
Grand Rapids, MI	40	1	90	2	86	0	71	3	79
Grand Rapids, MI	45	4	90	4	86	4	83	4	91
Grand Rapids, MI	50	6	90	7	86	9	89	10	91
Grand Rapids, MI	55	10	93	9	95	11	89	15	91
Grand Rapids, MI	60	16	98	12	97	13	89	18	91
Grand Rapids, MI	100	21	133	14	117	13	89	19	98
Greensboro, NC	5	0	38	0	32	0	41	0	21
Greensboro, NC	10	0	38	0	32	0	41	0	21

Greensboro, NC	15	0	44	0	32	0	41	0	34
Greensboro, NC	20	0	56	0	44	0	41	0	38
Greensboro, NC	25	0	56	0	54	0	50	0	52
Greensboro, NC	30	0	65	0	61	0	60	0	54
Greensboro, NC	35	1	78	0	72	0	74	0	69
Greensboro, NC	40	6	83	2	78	6	83	3	81
Greensboro, NC	45	9	95	6	80	12	83	9	85
Greensboro, NC	50	15	103	11	84	23	98	19	102
Greensboro, NC	55	17	103	19	100	33	98	28	102
Greensboro, NC	60	17	103	19	100	38	98	32	102
Greensboro, NC	100	17	103	21	107	39	98	37	102
Honolulu, HI	5	0	15	0	11	0	12	0	8
Honolulu, HI	10	0	22	0	26	0	24	0	23
Honolulu, HI	15	0	32	0	32	0	32	0	32
Honolulu, HI	20	0	40	0	39	0	46	0	43
Honolulu, HI	25	0	41	0	43	0	46	0	45
Honolulu, HI	30	0	46	0	43	0	46	0	45
Honolulu, HI	35	0	53	0	43	0	46	0	46
Honolulu, HI	40	0	53	0	44	0	46	0	49
Honolulu, HI	45	0	53	0	44	0	50	0	50
Honolulu, HI	50	0	53	0	44	0	50	0	50
Honolulu, HI	55	0	53	0	44	0	50	0	50
Honolulu, HI	60	0	53	0	44	0	50	0	50
Honolulu, HI	100	0	53	0	44	0	50	0	50
Houston, TX	5	0	12	0	29	0	27	0	29
Houston,	10	0	40	0	41	0	40	0	37

TX									
Houston, TX	15	0	54	0	66	0	64	0	68
Houston, TX	20	0	73	0	69	0	74	1	79
Houston, TX	25	4	83	3	89	2	95	4	86
Houston, TX	30	15	125	10	96	9	128	14	111
Houston, TX	35	30	125	21	133	27	128	28	113
Houston, TX	40	42	125	28	133	41	128	38	113
Houston, TX	45	54	156	37	133	54	138	51	137
Houston, TX	50	69	156	38	133	65	138	59	137
Houston, TX	55	79	156	40	133	73	152	65	164
Houston, TX	60	85	156	43	163	74	152	66	164
Houston, TX	100	90	156	43	163	74	152	71	172
Huntsville, AL	5	0	10	0	13	0	11	0	16
Huntsville, AL	10	0	23	0	25	0	32	0	25
Huntsville, AL	15	0	29	0	35	0	40	0	38
Huntsville, AL	20	0	43	0	49	0	48	0	53
Huntsville, AL	25	0	56	0	56	0	61	0	59
Huntsville, AL	30	0	67	0	65	0	69	0	72
Huntsville, AL	35	0	73	1	81	1	77	1	79
Huntsville, AL	40	2	79	2	81	6	86	4	83

Huntsville, AL	45	10	84	5	81	8	88	10	87
Huntsville, AL	50	12	91	8	93	10	88	20	105
Huntsville, AL	55	14	91	15	93	11	88	25	105
Huntsville, AL	60	15	93	19	93	11	88	26	105
Huntsville, AL	100	15	93	21	93	11	88	26	105
Indianapolis, IN	5	0	25	0	38	0	14	0	40
Indianapolis, IN	10	0	25	0	38	0	14	0	40
Indianapolis, IN	15	0	27	0	38	0	28	0	40
Indianapolis, IN	20	0	44	0	48	0	46	0	44
Indianapolis, IN	25	0	61	0	50	0	60	0	58
Indianapolis, IN	30	0	71	0	66	0	68	0	73
Indianapolis, IN	35	3	80	1	84	1	76	0	73
Indianapolis, IN	40	6	96	2	84	3	81	6	85
Indianapolis, IN	45	21	96	14	92	9	97	14	96
Indianapolis, IN	50	31	96	21	100	16	97	20	104
Indianapolis, IN	55	35	101	28	105	22	122	26	112
Indianapolis, IN	60	37	111	29	105	29	122	34	112
Indianapolis, IN	100	39	111	32	125	30	122	38	112
Jackson, MS	5	0	12	0	17	0	35	0	12
Jackson,	10	0	22	0	22	0	35	0	13

MS									
Jackson, MS	15	0	37	0	34	0	37	0	31
Jackson, MS	20	0	40	0	44	0	42	0	41
Jackson, MS	25	0	51	0	54	0	57	0	55
Jackson, MS	30	0	57	0	66	0	68	0	61
Jackson, MS	35	0	66	0	75	0	75	0	75
Jackson, MS	40	0	70	0	75	0	75	2	78
Jackson, MS	45	2	80	2	79	3	84	8	88
Jackson, MS	50	3	80	5	83	6	84	12	88
Jackson, MS	55	4	80	7	84	6	84	16	99
Jackson, MS	60	5	81	8	84	6	84	19	99
Jackson, MS	100	5	81	8	84	6	84	20	99
Jacksonville, FL	5							0	13
Jacksonville, FL	10	0	35	0	24	0	20	0	31
Jacksonville, FL	15	0	35	0	36	0	29	0	40
Jacksonville, FL	20	0	47	0	65	0	51	0	50
Jacksonville, FL	25	0	55	0	65	0	58	0	62
Jacksonville, FL	30	0	65	0	65	0	74	0	72
Jacksonville, FL	35	1	83	0	72	0	74	1	82
Jacksonville, FL	40	2	83	3	87	3	78	2	82

Jacksonville, FL	45	3	83	4	87	9	94	8	101
Jacksonville, FL	50	5	90	7	87	12	95	14	118
Jacksonville, FL	55	6	90	7	87	12	95	19	118
Jacksonville, FL	60	6	90	8	87	12	95	20	118
Jacksonville, FL	100	6	90	8	87	12	95	21	118
Johnstown, PA	5	0	6	0	12	0	24	0	11
Johnstown, PA	10	0	24	0	26	0	26	0	27
Johnstown, PA	15	0	41	0	34	0	40	0	34
Johnstown, PA	20	0	44	0	50	0	51	0	45
Johnstown, PA	25	0	57	0	53	0	57	0	59
Johnstown, PA	30	0	65	0	67	0	63	0	72
Johnstown, PA	35	0	67	0	68	0	67	0	72
Johnstown, PA	40	2	79	2	78	1	78	2	82
Johnstown, PA	45	9	87	4	85	5	79	10	89
Johnstown, PA	50	11	87	7	89	8	92	17	98
Johnstown, PA	55	16	92	7	89	11	96	21	105
Johnstown, PA	60	16	92	7	89	13	98	24	105
Johnstown, PA	100	16	92	7	89	14	112	24	105
Kansas City, MO	5	0	11	0	15	0	10	0	25
Kansas	10	0	18	0	34	0	25	0	28

City, MO									
Kansas City, MO	15	0	30	0	35	0	39	0	40
Kansas City, MO	20	0	35	0	50	0	46	0	62
Kansas City, MO	25	0	47	0	56	0	52	0	66
Kansas City, MO	30	0	59	0	70	0	62	0	70
Kansas City, MO	35	0	66	2	83	1	76	0	70
Kansas City, MO	40	1	78	8	90	2	76	4	78
Kansas City, MO	45	5	84	13	90	12	97	14	97
Kansas City, MO	50	11	90	21	99	23	98	19	105
Kansas City, MO	55	19	111	23	101	28	98	27	109
Kansas City, MO	60	31	125	25	101	32	111	31	113
Kansas City, MO	100	34	125	26	101	33	111	32	113
Kingston, NY	5	0		0	32			0	2
Kingston, NY	10	0	24	0	32	0	20	0	27
Kingston, NY	15	0	31	0	32	0	28	0	31
Kingston, NY	20	0	36	0	33	0	29	0	34
Kingston, NY	25	0	39	0	40	0	38	0	45
Kingston, NY	30	0	48	0	49	0	52	0	48
Kingston, NY	35	0	57	0	66	0	60	0	54
Kingston, NY	40	0	69	0	66	0	61	0	58

Kingston, NY	45	0	74	0	71	0	72	1	76
Kingston, NY	50	0	75	0	73	1	77	2	77
Kingston, NY	55	3	84	0	74	2	89	6	84
Kingston, NY	60	7	89	1	91	4	89	9	84
Kingston, NY	100	8	89	4	91	9	89	11	87
Knoxville, TN	5	0				0	35	0	8
Knoxville, TN	10	0	35	0	31	0	35	0	20
Knoxville, TN	15	0	40	0	44	0	35	0	33
Knoxville, TN	20	0	52	0	52	0	49	0	43
Knoxville, TN	25	0	61	0	62	0	58	0	54
Knoxville, TN	30	0	67	0	63	1	79	0	65
Knoxville, TN	35	2	92	1	79	3	79	2	78
Knoxville, TN	40	10	92	12	84	9	94	10	87
Knoxville, TN	45	28	99	28	92	28	100	31	98
Knoxville, TN	50	37	101	35	102	50	100	49	112
Knoxville, TN	55	49	107	48	111	59	111	75	117
Knoxville, TN	60	51	109	50	111	60	111	83	122
Knoxville, TN	100	55	120	50	111	60	111	88	122
Lafayette, LA	5	0	12	0				0	37
Lafayette,	10	0	23	0	23	0	26	0	37

LA									
Lafayette, LA	15	0	34	0	36	0	38	0	38
Lafayette, LA	20	0	53	0	48	0	42	0	50
Lafayette, LA	25	0	56	0	54	0	62	0	61
Lafayette, LA	30	0	61	0	62	0	62	0	75
Lafayette, LA	35	0	67	0	68	0	70	0	75
Lafayette, LA	40	1	76	2	79	0	75	2	80
Lafayette, LA	45	4	84	2	79	6	81	3	80
Lafayette, LA	50	15	86	4	84	9	95	7	88
Lafayette, LA	55	27	94	11	87	9	95	11	89
Lafayette, LA	60	29	94	11	87	9	95	13	97
Lafayette, LA	100	33	106	11	87	9	95	15	97
Lake Charles, LA	5			0	20				
Lake Charles, LA	10	0	24	0	32	0	29	0	26
Lake Charles, LA	15	0	41	0	38	0	35	0	39
Lake Charles, LA	20	0	60	0	54	0	49	0	49
Lake Charles, LA	25	0	70	0	71	0	58	0	64
Lake Charles, LA	30	0	75	2	81	0	73	2	92
Lake Charles, LA	35	3	77	2	81	1	99	4	92
Lake Charles, LA	40	7	90	6	84	7	99	6	92

Lake Charles, LA	45	13	90	10	84	11	99	13	92
Lake Charles, LA	50	19	99	11	84	19	116	19	92
Lake Charles, LA	55	19	99	11	84	19	116	25	99
Lake Charles, LA	60	19	99	11	84	19	116	25	99
Lake Charles, LA	100	19	99	11	84	19	116	25	99
Las Vegas, NV	5	0	21	0	37	0	28	0	17
Las Vegas, NV	10	0	30	0	38	0	35	0	35
Las Vegas, NV	15	0	45	0	41	0	47	0	46
Las Vegas, NV	20	0	52	0	50	0	64	0	58
Las Vegas, NV	25	0	61	0	58	0	64	0	58
Las Vegas, NV	30	0	71	0	69	0	65	0	71
Las Vegas, NV	35	1	76	2	78	1	76	1	77
Las Vegas, NV	40	1	76	7	83	5	80	6	79
Las Vegas, NV	45	1	76	16	85	6	83	20	95
Las Vegas, NV	50	2	81	20	86	6	83	30	106
Las Vegas, NV	55	6	82	24	86	7	83	34	106
Las Vegas, NV	60	6	82	25	86	9	83	36	106
Las Vegas, NV	100	6	82	26	90	9	83	36	106
Lexington, KY	5	0	9	0	31	0	15	0	45
Lexington,	10	0	18	0	31	0	23	0	45

KY									
Lexington, KY	15	0	33	0	35	0	36	0	45
Lexington, KY	20	0	46	0	46	0	44	0	49
Lexington, KY	25	0	52	0	53	0	52	0	56
Lexington, KY	30	0	67	0	66	0	61	0	64
Lexington, KY	35	0	70	0	70	0	73	0	71
Lexington, KY	40	2	77	2	77	1	78	5	78
Lexington, KY	45	9	89	6	83	4	89	10	86
Lexington, KY	50	18	95	8	83	6	89	15	98
Lexington, KY	55	23	104	10	88	10	97	18	98
Lexington, KY	60	26	104	12	91	10	97	23	98
Lexington, KY	100	26	104	12	91	10	97	24	111
Lincoln, NE	5	0	22	0	13	0	8	0	11
Lincoln, NE	10	0	22	0	13	0	18	0	18
Lincoln, NE	15	0	26	0	29	0	27	0	28
Lincoln, NE	20	0	38	0	40	0	33	0	38
Lincoln, NE	25	0	49	0	41	0	42	0	50
Lincoln, NE	30	0	50	0	44	0	49	0	54
Lincoln, NE	35	0	52	0	50	0	52	0	54
Lincoln, NE	40	0	63	0	55	0	56	0	60
Lincoln, NE	45	0	67	0	56	0	57	0	60
Lincoln, NE	50	0	67	0	56	0	57	0	60
Lincoln, NE	55	0	67	0	56	0	57	0	60
Lincoln, NE	60	0	67	0	56	0	57	0	60
Lincoln, NE	100	0	67	0	56	0	57	0	60
Little Rock, AR	5	0	20	0	27	0	13	0	14

Little Rock, AR	10	0	33	0	27	0	28	0	28
Little Rock, AR	15	0	36	0	31	0	42	0	33
Little Rock, AR	20	0	43	0	39	0	61	0	44
Little Rock, AR	25	0	54	0	50	0	61	0	50
Little Rock, AR	30	0	56	0	60	0	64	0	64
Little Rock, AR	35	0	67	0	62	0	70	0	69
Little Rock, AR	40	1	76	0	71	0	73	0	72
Little Rock, AR	45	4	80	2	87	3	78	2	78
Little Rock, AR	50	12	86	6	87	5	79	7	82
Little Rock, AR	55	16	99	9	87	9	86	12	88
Little Rock, AR	60	21	100	9	87	10	86	13	88
Little Rock, AR	100	24	100	9	87	10	86	13	88
Los Angeles, CA	5	0	31	0	33	0	25	0	26
Los Angeles, CA	10	0	48	0	42	0	39	0	39
Los Angeles, CA	15	0	72	0	59	0	66	0	48
Los Angeles, CA	20	1	94	0	66	0	71	1	76
Los Angeles, CA	25	5	94	5	84	8	108	2	77

Los Angeles, CA	30	34	110	30	119	28	108	15	102
Los Angeles, CA	35	74	130	64	129	51	116	35	129
Los Angeles, CA	40	107	134	83	132	64	128	48	129
Los Angeles, CA	45	123	158	96	145	74	128	57	147
Los Angeles, CA	50	132	158	102	150	77	130	64	171
Los Angeles, CA	55	134	158	102	150	77	130	64	171
Los Angeles, CA	60	134	158	102	150	77	130	64	171
Los Angeles, CA	100	134	158	102	150	77	130	64	171
Louisville, KY	5	0	23	0	38	0	13	0	42
Louisville, KY	10	0	28	0	38	0	31	0	42
Louisville, KY	15	0	39	0	45	0	40	0	46
Louisville, KY	20	0	59	0	60	0	51	0	57
Louisville, KY	25	0	73	0	66	0	64	0	70
Louisville, KY	30	1	81	2	87	1	77	1	82
Louisville, KY	35	8	100	10	87	5	91	2	82
Louisville, KY	40	29	114	19	107	17	97	12	92

Louisville, KY	45	37	114	29	107	23	111	34	112
Louisville, KY	50	42	114	34	107	31	111	43	115
Louisville, KY	55	43	114	36	113	31	111	47	115
Louisville, KY	60	44	114	36	113	32	111	48	132
Louisville, KY	100	44	114	36	113	32	111	48	132
Madison, WI	5	0	36	0	40	0	38	0	31
Madison, WI	10	0	36	0	40	0	38	0	31
Madison, WI	15	0	36	0	40	0	38	0	31
Madison, WI	20	0	38	0	40	0	38	0	31
Madison, WI	25	0	41	0	42	0	43	0	43
Madison, WI	30	0	54	0	51	0	57	0	55
Madison, WI	35	0	55	0	58	0	57	0	59
Madison, WI	40	0	64	0	66	0	67	0	70
Madison, WI	45	0	70	0	73	0	70	0	71
Madison, WI	50	3	80	2	79	1	76	0	71
Madison, WI	55	6	81	4	84	3	81	2	76
Madison, WI	60	10	92	5	95	4	82	7	87
Madison, WI	100	15	99	7	95	5	85	8	87
Memphis, TN	5			0	21	0	12	0	15
Memphis,	10	0	25	0	23	0	26	0	25

TN									
Memphis, TN	15	0	37	0	36	0	39	0	36
Memphis, TN	20	0	40	0	41	0	47	0	50
Memphis, TN	25	0	55	0	65	0	61	0	60
Memphis, TN	30	1	80	1	77	0	61	0	63
Memphis, TN	35	3	80	3	88	2	80	0	73
Memphis, TN	40	12	87	5	89	10	96	3	83
Memphis, TN	45	25	123	17	95	22	100	21	100
Memphis, TN	50	39	123	29	104	32	100	37	108
Memphis, TN	55	50	123	33	104	35	108	44	108
Memphis, TN	60	53	123	36	119	35	108	52	123
Memphis, TN	100	56	123	38	119	35	108	55	123
Miami, FL	10	0	26			0	31	0	22
Miami, FL	15	0	44	0	39	0	52	0	47
Miami, FL	20	0	59	0	52	0	62	0	56
Miami, FL	25	0	61	0	65	0	65	0	70
Miami, FL	30	1	77	1	77	0	73	0	70
Miami, FL	35	6	90	2	77	0	73	2	81
Miami, FL	40	8	90	2	77	2	88	3	81
Miami, FL	45	8	90	4	98	6	88	6	85
Miami, FL	50	10	90	5	98	7	88	11	103
Miami, FL	55	10	90	5	98	7	88	16	103
Miami, FL	60	10	90	5	98	7	88	16	103
Miami, FL	100	10	90	5	98	7	88	18	103
Milwaukee, WI	5	0	42	0	40	0	42	0	35
Milwaukee,	10	0	42	0	40	0	42	0	35

WI									
Milwaukee, WI	15	0	42	0	40	0	42	0	41
Milwaukee, WI	20	0	42	0	43	0	52	0	44
Milwaukee, WI	25	0	62	0	53	0	52	0	63
Milwaukee, WI	30	0	62	0	59	0	63	0	63
Milwaukee, WI	35	0	65	0	63	0	71	2	78
Milwaukee, WI	40	0	70	1	80	2	105	3	81
Milwaukee, WI	45	3	82	7	83	5	105	4	81
Milwaukee, WI	50	5	83	10	92	6	105	9	105
Milwaukee, WI	55	11	98	12	92	8	105	17	105
Milwaukee, WI	60	17	115	12	92	8	105	21	105
Milwaukee, WI	100	25	116	15	116	11	126	21	105
Mobile, AL	5	0	14	0	11	0	19	0	35
Mobile, AL	10	0	36	0	37	0	26	0	35
Mobile, AL	15	0	54	0	51	0	47	0	40
Mobile, AL	20	0	54	0	55	0	47	0	54
Mobile, AL	25	0	64	0	57	0	60	0	58
Mobile, AL	30	0	65	0	69	0	66	0	74
Mobile, AL	35	0	69	0	74	5	81	2	80
Mobile, AL	40	7	85	2	87	10	87	9	84
Mobile, AL	45	8	85	5	90	12	91	15	98
Mobile, AL	50	8	85	5	90	12	91	16	98
Mobile, AL	55	8	85	6	94	12	91	18	98
Mobile, AL	60	9	85	6	94	12	91	20	106
Mobile, AL	100	9	85	6	94	12	91	20	106
Modesto, CA	5	0	14	0	16	0	13	0	10

Modesto, CA	10	0	36	0	36	0	29	0	38
Modesto, CA	15	0	45	0	42	0	38	0	38
Modesto, CA	20	0	56	0	49	0	52	0	49
Modesto, CA	25	0	70	0	63	0	57	0	63
Modesto, CA	30	1	76	0	72	0	64	0	70
Modesto, CA	35	2	78	3	88	0	72	0	73
Modesto, CA	40	15	94	9	88	4	82	4	85
Modesto, CA	45	24	95	32	92	11	91	17	92
Modesto, CA	50	30	106	39	97	19	100	32	97
Modesto, CA	55	33	106	48	111	20	100	41	103
Modesto, CA	60	36	111	50	111	20	100	46	121
Modesto, CA	100	36	111	50	111	20	100	48	125
Muskegon, MI	5	0	6	0	42	0	12	0	38
Muskegon, MI	10	0	26	0	42	0	14	0	38
Muskegon, MI	15	0	31	0	42	0	36	0	38
Muskegon, MI	20	0	51	0	44	0	47	0	42
Muskegon, MI	25	0	51	0	55	0	50	0	54
Muskegon, MI	30	0	55	0	70	0	58	0	70
Muskegon, MI	35	1	82	2	78	0	68	1	77
Muskegon,	40	3	84	4	78	0	68	1	77

MI									
Muskegon, MI	45	4	84	5	79	3	85	5	83
Muskegon, MI	50	8	89	7	85	5	85	7	99
Muskegon, MI	55	13	102	9	101	9	99	12	100
Muskegon, MI	60	15	102	9	101	9	99	16	100
Muskegon, MI	100	21	153	12	129	10	100	22	100
Nashville, TN	5	0	15					0	16
Nashville, TN	10	0	35	0	30	0	26	0	34
Nashville, TN	15	0	49	0	43	0	39	0	43
Nashville, TN	20	0	49	0	50	0	48	0	58
Nashville, TN	25	0	58	0	58	0	61	0	63
Nashville, TN	30	2	81	0	64	2	79	1	76
Nashville, TN	35	5	89	5	89	5	80	6	87
Nashville, TN	40	26	96	21	95	19	95	21	98
Nashville, TN	45	44	102	34	97	37	110	41	111
Nashville, TN	50	55	104	44	107	43	110	53	111
Nashville, TN	55	58	104	47	107	46	110	56	111
Nashville, TN	60	59	108	47	107	47	110	56	111
Nashville, TN	100	59	108	48	107	47	110	56	111
New Orleans, LA	5	0	7	0	24	0	10	0	14

New Orleans, LA	10	0	35	0	29	0	30	0	34
New Orleans, LA	15	0	37	0	46	0	44	0	42
New Orleans, LA	20	0	50	0	51	0	47	0	58
New Orleans, LA	25	0	66	0	61	0	62	0	64
New Orleans, LA	30	0	74	0	74	0	69	0	69
New Orleans, LA	35	1	81	1	78	3	83	3	81
New Orleans, LA	40	11	87	5	88	7	89	7	82
New Orleans, LA	45	21	93	10	88	15	99	11	90
New Orleans, LA	50	29	102	13	89	17	99	15	100
New Orleans, LA	55	33	102	14	101	17	99	16	102
New Orleans, LA	60	33	102	14	101	17	99	18	103
New Orleans, LA	100	33	102	14	101	17	99	18	103
New York City, NY	5	0	42	0	41	0	29	0	31
New York City, NY	10	0	44	0	43	0	42	0	40
New York City, NY	15	1	77	0	55	0	51	0	49
New York City, NY	20	1	77	0	63	0	66	0	59
New York City, NY	25	2	86	1	84	1	92	0	73
New York City, NY	30	5	86	6	93	3	92	1	90
New York City, NY	35	9	101	17	93	7	92	13	96
New York	40	22	101	29	100	16	107	21	96

City, NY									
New York City, NY	45	29	105	36	101	22	107	39	122
New York City, NY	50	34	118	44	119	31	107	51	122
New York City, NY	55	37	118	47	119	35	107	57	122
New York City, NY	60	42	119	48	119	40	122	58	122
New York City, NY	100	47	147	48	119	43	150	60	122
Oakland, CA	5	0	23	0	29	0	30	0	27
Oakland, CA	10	0	48	0	39	0	37	0	45
Oakland, CA	15	0	59	0	53	0	57	0	60
Oakland, CA	20	0	70	1	80	0	72	1	86
Oakland, CA	25	3	81	8	91	1	84	5	100
Oakland, CA	30	8	83	16	112	2	84	14	110
Oakland, CA	35	13	97	20	112	3	84	19	110
Oakland, CA	40	19	115	21	112	4	84	19	110
Oakland, CA	45	19	115	21	112	4	84	19	110
Oakland, CA	50	20	115	21	112	4	84	19	110
Oakland, CA	55	20	115	21	112	4	84	19	110
Oakland, CA	60	20	115	21	112	4	84	19	110
Oakland, CA	100	20	115	21	112	4	84	19	110
Oklahoma City, OK	5	0	12	0	13	0	18	0	11

Oklahoma City, OK	10	0	26	0	27	0	25	0	28
Oklahoma City, OK	15	0	36	0	37	0	39	0	33
Oklahoma City, OK	20	0	46	0	41	0	51	0	44
Oklahoma City, OK	25	0	53	0	57	0	57	0	50
Oklahoma City, OK	30	0	66	0	63	0	60	0	61
Oklahoma City, OK	35	0	70	1	78	0	65	0	66
Oklahoma City, OK	40	0	70	2	93	0	69	1	84
Oklahoma City, OK	45	8	99	2	93	2	88	3	84
Oklahoma City, OK	50	13	99	5	93	8	88	9	92
Oklahoma City, OK	55	21	103	8	93	13	88	19	97
Oklahoma City, OK	60	26	103	9	93	13	88	26	102
Oklahoma City, OK	100	29	103	10	93	15	96	35	125
Omaha, NE	5	0	15	0	20	0		0	35
Omaha, NE	10	0	23	0	27	0	39	0	35
Omaha, NE	15	0	37	0	39	0	42	0	38
Omaha, NE	20	0	56	0	50	0	50	0	55
Omaha, NE	25	0	56	0	50	0	61	0	60
Omaha, NE	30	0	68	0	55	0	63	0	64
Omaha, NE	35	1	77	0	61	0	68	0	66
Omaha, NE	40	2	77	0	66	1	77	1	80
Omaha, NE	45	2	77	0	66	1	77	2	89
Omaha, NE	50	3	84	0	66	1	77	5	89
Omaha, NE	55	3	84	0	66	1	77	5	89
Omaha, NE	60	3	84	0	66	1	77	5	89
Omaha, NE	100	3	84	0	66	1	77	5	89
Orlando, FL	5					0	18	0	14

Orlando, FL	10	0	34	0	34	0	25	0	29
Orlando, FL	15	0	45	0	44	0	41	0	38
Orlando, FL	20	0	52	0	65	0	53	0	52
Orlando, FL	25	0	61	0	65	0	66	0	62
Orlando, FL	30	0	70	2	82	1	76	0	72
Orlando, FL	35	1	77	4	82	1	76	1	76
Orlando, FL	40	6	86	6	89	1	76	1	76
Orlando, FL	45	8	86	7	89	3	87	7	86
Orlando, FL	50	9	86	8	89	6	101	14	108
Orlando, FL	55	10	86	8	89	7	101	19	108
Orlando, FL	60	10	86	8	89	7	101	22	108
Orlando, FL	100	10	86	8	89	7	101	23	108
Philadelphia, PA	5	0	35	0	34	0	33	0	38
Philadelphia, PA	10	0	38	0	40	0	40	0	46
Philadelphia, PA	15	0	47	0	51	0	49	0	48
Philadelphia, PA	20	0	67	0	55	0	58	0	57
Philadelphia, PA	25	0	67	0	62	0	63	0	59
Philadelphia, PA	30	1	82	1	80	0	72	0	68
Philadelphia, PA	35	7	95	6	84	3	87	3	79
Philadelphia, PA	40	15	105	13	88	9	87	17	96
Philadelphia, PA	45	35	105	24	92	17	103	34	105
Philadelphia, PA	50	47	105	37	101	26	103	45	105
Philadelphia, PA	55	52	109	41	107	34	137	55	131
Philadelphia, PA	60	55	111	43	118	38	137	60	131
Philadelphia, PA	100	62	135	43	118	43	137	63	131

Phoenix, AZ	5	0	16						
Phoenix, AZ	10	0	36	0	25	0	24		
Phoenix, AZ	15	0	43	0	44	0	51	0	56
Phoenix, AZ	20	0	50	0	48	0	62	0	63
Phoenix, AZ	25	0	65	0	63	0	63	0	63
Phoenix, AZ	30	2	79	0	72	0	70	0	67
Phoenix, AZ	35	5	84	6	82	1	81	0	72
Phoenix, AZ	40	28	92	17	90	12	91	13	84
Phoenix, AZ	45	41	98	31	91	27	91	35	88
Phoenix, AZ	50	50	99	43	106	41	91	71	94
Phoenix, AZ	55	50	99	49	106	46	99	79	95
Phoenix, AZ	60	50	99	49	106	47	99	82	103
Phoenix, AZ	100	50	99	49	106	47	99	82	103
Pittsburgh, PA	5	0	19	0	21	0	30	0	24
Pittsburgh, PA	10	0	29	0	49	0	30	0	34
Pittsburgh, PA	15	0	36	0	49	0	44	0	57
Pittsburgh, PA	20	0	73	0	56	0	55	0	57
Pittsburgh, PA	25	0	73	0	64	0	68	0	70
Pittsburgh, PA	30	0	73	0	70	1	84	1	76
Pittsburgh, PA	35	2	83	3	79	3	84	7	87
Pittsburgh, PA	40	9	93	13	91	11	90	24	99
Pittsburgh, PA	45	24	115	23	94	23	90	39	99
Pittsburgh, PA	50	30	125	30	96	30	100	56	116
Pittsburgh, PA	55	34	125	33	112	35	109	60	116
Pittsburgh, PA	60	36	125	34	112	39	112	61	116
Pittsburgh,	100	37	125	36	112	40	117	63	116

PA									
Portland, OR	5	0	12	0	17	0	28	0	17
Portland, OR	10	0	24	0	23	0	34	0	25
Portland, OR	15	0	41	0	44	0	35	0	43
Portland, OR	20	0	51	0	44	0	52	0	48
Portland, OR	25	0	57	0	73	0	55	0	66
Portland, OR	30	0	73	0	73	0	63	0	69
Portland, OR	35	1	84	3	83	0	72	4	81
Portland, OR	40	4	87	5	83	0	72	6	81
Portland, OR	45	4	87	8	99	1	82	8	98
Portland, OR	50	5	93	9	99	1	82	9	116
Portland, OR	55	5	93	11	112	1	82	9	116
Portland, OR	60	5	93	12	120	1	82	9	116
Portland, OR	100	5	93	12	120	1	82	9	116
Providence, RI	5	0	28	0	24	0	15	0	26
Providence, RI	10	0	32	0	28	0	34	0	26
Providence, RI	15	0	42	0	46	0	34	0	37
Providence, RI	20	0	56	0	48	0	61	0	43
Providence, RI	25	0	64	0	54	0	62	0	56
Providence, RI	30	0	74	0	66	0	63	0	67

Providence, RI	35	2	88	0	69	2	93	0	73
Providence, RI	40	3	88	1	79	2	93	4	82
Providence, RI	45	5	88	6	90	4	93	6	91
Providence, RI	50	11	106	12	104	6	93	11	91
Providence, RI	55	16	106	16	113	10	93	14	99
Providence, RI	60	18	108	17	113	14	100	17	99
Providence, RI	100	24	139	18	113	22	107	18	105
Raleigh, NC	5	0	39	0	31	0	41	0	19
Raleigh, NC	10	0	39	0	31	0	41	0	21
Raleigh, NC	15	0	45	0	31	0	41	0	36
Raleigh, NC	20	0	54	0	45	0	43	0	51
Raleigh, NC	25	0	56	0	65	0	58	0	60
Raleigh, NC	30	0	66	0	69	0	68	0	60
Raleigh, NC	35	0	73	0	71	1	76	0	69
Raleigh, NC	40	1	84	0	75	1	76	0	74
Raleigh, NC	45	5	84	6	84	8	87	4	88
Raleigh, NC	50	18	90	17	86	20	89	16	94
Raleigh, NC	55	31	91	27	100	41	94	39	97
Raleigh, NC	60	37	93	36	100	53	103	63	102
Raleigh, NC	100	39	99	37	100	65	114	80	119
Riverside, CA	10	0	39	0	39	0	29		
Riverside, CA	15	0	46	0	47	0	55	0	46
Riverside, CA	20	0	71	0	52	0	60	0	60
Riverside, CA	25	0	71	0	64	1	80	0	64
Riverside, CA	30	1	76	0	73	3	85	0	67
Riverside,	35	7	99	8	106	8	89	2	83

CA									
Riverside, CA	40	29	111	18	106	23	107	15	90
Riverside, CA	45	56	122	41	111	54	107	45	121
Riverside, CA	50	84	144	69	116	90	118	71	135
Riverside, CA	55	119	165	100	151	124	125	86	145
Riverside, CA	60	138	170	116	164	142	135	100	166
Riverside, CA	100	154	203	149	173	155	148	125	206
Rochester, NY	5	0	19	0	23	0	19		
Rochester, NY	10	0	23	0	32	0	26	0	36
Rochester, NY	15	0	33	0	35	0	46	0	36
Rochester, NY	20	0	39	0	46	0	46	0	40
Rochester, NY	25	0	48	0	52	0	51	0	48
Rochester, NY	30	0	57	0	65	0	53	0	53
Rochester, NY	35	0	62	0	66	0	62	0	61
Rochester, NY	40	0	67	0	73	0	66	0	71
Rochester, NY	45	1	77	1	80	0	72	2	81
Rochester, NY	50	1	77	1	80	2	82	5	91
Rochester, NY	55	2	77	1	80	3	82	7	91
Rochester, NY	60	6	97	2	80	3	82	10	91
Rochester, NY	100	10	101	2	80	12	97	13	93

Sacramento, CA	5								
Sacramento, CA	10	0	36	0	49	0	47	0	40
Sacramento, CA	15	0	51	0	49	0	47	0	51
Sacramento, CA	20	0	57	0	50	0	62	0	52
Sacramento, CA	25	0	68	0	60	0	67	0	73
Sacramento, CA	30	3	80	0	74	0	74	0	73
Sacramento, CA	35	9	95	6	88	3	80	2	83
Sacramento, CA	40	32	104	23	97	17	91	15	94
Sacramento, CA	45	49	121	48	105	36	107	38	101
Sacramento, CA	50	59	121	70	126	44	107	54	137
Sacramento, CA	55	65	128	76	126	45	107	56	137
Sacramento, CA	60	65	128	76	126	45	107	61	137
Sacramento, CA	100	65	128	76	126	45	107	61	137
Salt Lake City, UT	5	0	16	0	30	0	50	0	24
Salt Lake City, UT	10	0	16	0	30	0	50	0	24
Salt Lake City, UT	15	0	16	0	30	0	50	0	24
Salt Lake City, UT	20	0	16	0	41	0	50	0	39
Salt Lake City, UT	25	0	49	0	51	0	50	0	50
Salt Lake City, UT	30	0	60	0	59	0	60	0	66
Salt Lake	35	0	70	2	95	0	65	1	77

City, UT									
Salt Lake City, UT	40	2	83	4	95	2	77	3	88
Salt Lake City, UT	45	7	83	14	97	5	78	10	95
Salt Lake City, UT	50	10	93	23	111	7	86	19	98
Salt Lake City, UT	55	11	100	25	111	7	86	27	103
Salt Lake City, UT	60	11	100	25	111	7	86	29	108
Salt Lake City, UT	100	11	100	25	111	7	86	29	108
San Antonio, TX	5	0	16	0	13	0	12	0	9
San Antonio, TX	10	0	25	0	42	0	27	0	29
San Antonio, TX	15	0	40	0	43	0	39	0	46
San Antonio, TX	20	0	51	0	52	0	49	0	49
San Antonio, TX	25	0	65	0	53	0	59	0	63
San Antonio, TX	30	0	65	0	67	0	64	1	82
San Antonio, TX	35	2	77	1	79	1	83	1	82
San Antonio, TX	40	5	90	2	80	2	83	6	95
San Antonio, TX	45	13	90	5	83	5	89	9	95
San Antonio, TX	50	18	95	6	83	7	96	12	101
San Antonio, TX	55	30	108	9	96	9	96	16	110
San Antonio, TX	60	32	108	10	98	11	96	16	110
San Antonio, TX	100	33	108	10	98	11	96	17	110

San Diego, CA	5			0	11	0	10	0	43
San Diego, CA	10	0	32	0	43	0	38	0	51
San Diego, CA	15	0	64	0	51	0	45	0	54
San Diego, CA	20	0	64	0	65	0	60	0	56
San Diego, CA	25	2	85	0	74	1	83	0	74
San Diego, CA	30	12	107	8	92	2	83	8	115
San Diego, CA	35	45	107	16	92	15	87	23	115
San Diego, CA	40	66	109	32	97	28	99	36	115
San Diego, CA	45	79	122	53	103	38	112	48	122
San Diego, CA	50	89	122	63	117	41	112	58	141
San Diego, CA	55	93	122	64	117	42	112	58	141
San Diego, CA	60	94	122	64	117	43	112	58	141
San Diego, CA	100	94	122	64	117	43	112	58	141
San Jose, CA	5	0	24	0	25	0	28		
San Jose, CA	10	0	44	0	45	0	42	0	44
San Jose, CA	15	0	51	0	50	0	53	0	50
San Jose, CA	20	0	74	2	79	0	72	2	78
San Jose, CA	25	4	87	7	86	3	76	4	78
San Jose, CA	30	5	87	17	94	5	91	9	96
San Jose,	35	11	102	27	97	6	91	16	97

CA									
San Jose, CA	40	16	104	33	101	6	91	24	111
San Jose, CA	45	21	104	35	101	7	91	25	111
San Jose, CA	50	21	104	38	103	7	91	25	111
San Jose, CA	55	24	109	39	103	7	91	25	111
San Jose, CA	60	24	109	39	103	7	91	25	111
San Jose, CA	100	24	109	39	103	7	91	25	111
Seattle, WA	5	0	16	0	7	0	10	0	11
Seattle, WA	10	0	33	0	49	0	43	0	27
Seattle, WA	15	0	40	0	50	0	50	0	47
Seattle, WA	20	0	49	0	62	0	56	0	68
Seattle, WA	25	0	60	0	64	0	63	0	72
Seattle, WA	30	0	66	0	65	0	67	0	72
Seattle, WA	35	0	70	2	78	2	92	1	77
Seattle, WA	40	2	83	7	90	3	92	3	85
Seattle, WA	45	4	83	10	100	3	92	4	101
Seattle, WA	50	4	83	12	100	3	92	6	111
Seattle, WA	55	4	83	12	100	3	92	6	111
Seattle, WA	60	4	83	12	100	3	92	6	111
Seattle, WA	100	4	83	12	100	3	92	6	111
Shreveport, LA	5			0	12	0	6	0	10
Shreveport, LA	10	0	15	0	32	0	20	0	21
Shreveport, LA	15	0	36	0	32	0	36	0	33
Shreveport, LA	20	0	44	0	45	0	46	0	48
Shreveport, LA	25	0	54	0	59	0	50	0	59
Shreveport, LA	30	0	64	0	67	0	65	0	68

Shreveport, LA	35	1	76	0	71	2	78	0	73
Shreveport, LA	40	6	84	1	79	6	85	3	93
Shreveport, LA	45	11	93	2	83	12	85	12	93
Shreveport, LA	50	14	93	5	90	18	89	21	93
Shreveport, LA	55	14	93	6	90	20	89	26	99
Shreveport, LA	60	14	93	6	90	20	89	31	102
Shreveport, LA	100	14	93	6	90	20	89	32	102
Spokane, WA	5	0	40	0	23	0	26	0	28
Spokane, WA	10	0	40	0	23	0	26	0	28
Spokane, WA	15	0	40	0	23	0	26	0	28
Spokane, WA	20	0	40	0	35	0	31	0	30
Spokane, WA	25	0	40	0	37	0	36	0	34
Spokane, WA	30	0	42	0	51	0	43	0	44
Spokane, WA	35	0	46	0	51	0	49	0	57
Spokane, WA	40	0	58	0	60	0	54	0	57
Spokane, WA	45	0	63	0	60	0	61	0	59
Spokane, WA	50	0	65	0	67	0	70	0	66
Spokane, WA	55	0	68	0	72	1	77	0	70
Spokane, WA	60	0	75	0	72	1	77	0	74
Spokane,	100	0	75	0	72	1	77	0	74

WA									
St Louis, MO	5	0	15	0	23	0	16	0	22
St Louis, MO	10	0	41	0	28	0	33	0	34
St Louis, MO	15	0	41	0	49	0	40	0	42
St Louis, MO	20	0	49	0	49	0	53	0	49
St Louis, MO	25	1	78	0	61	0	64	0	70
St Louis, MO	30	1	78	0	73	0	70	2	84
St Louis, MO	35	12	98	8	97	7	90	8	90
St Louis, MO	40	24	113	16	97	15	109	20	100
St Louis, MO	45	34	114	28	105	24	109	36	116
St Louis, MO	50	47	125	31	105	32	112	43	116
St Louis, MO	55	49	125	35	108	33	112	48	124
St Louis, MO	60	51	125	37	135	33	112	48	124
St Louis, MO	100	51	125	37	135	33	112	48	124
Stockton, CA	5	0	18	0	19	0	14	0	28
Stockton, CA	10	0	35	0	33	0	30	0	32
Stockton, CA	15	0	43	0	41	0	38	0	45
Stockton, CA	20	0	50	0	50	0	50	0	46
Stockton, CA	25	0	53	0	57	0	56	0	54
Stockton, CA	30	0	65	0	71	0	64	0	65

Stockton, CA	35	1	78	1	78	0	74	0	71
Stockton, CA	40	4	79	14	96	5	87	6	85
Stockton, CA	45	10	91	23	96	7	99	15	90
Stockton, CA	50	16	99	31	96	7	99	21	94
Stockton, CA	55	16	99	32	96	7	99	22	100
Stockton, CA	60	18	107	33	96	7	99	22	100
Stockton, CA	100	18	107	33	96	7	99	22	100
Syracuse, NY	5	0	11	0	20	0	10	0	18
Syracuse, NY	10	0	23	0	29	0	26	0	28
Syracuse, NY	15	0	27	0	39	0	42	0	42
Syracuse, NY	20	0	50	0	40	0	54	0	48
Syracuse, NY	25	0	50	0	52	0	54	0	51
Syracuse, NY	30	0	60	0	63	0	62	0	74
Syracuse, NY	35	0	71	0	65	0	62	0	74
Syracuse, NY	40	0	71	0	69	0	65	0	75
Syracuse, NY	45	2	78	1	77	0	71	0	75
Syracuse, NY	50	3	78	2	79	1	79	2	82
Syracuse, NY	55	6	92	2	79	5	87	5	88
Syracuse, NY	60	6	92	2	79	6	89	8	88
Syracuse,	100	10	95	3	82	6	89	10	91

NY									
Tampa, FL	5	0	12					0	21
Tampa, FL	10	0	24	0	32	0	25	0	28
Tampa, FL	15	0	42	0	42	0	41	0	46
Tampa, FL	20	0	62	0	66	0	55	0	65
Tampa, FL	25	0	65	0	66	0	64	0	65
Tampa, FL	30	0	66	0	75	0	69	1	78
Tampa, FL	35	1	77	0	75	1	80	1	78
Tampa, FL	40	2	77	0	75	6	80	4	83
Tampa, FL	45	9	104	5	103	12	84	5	83
Tampa, FL	50	11	104	7	103	16	90	11	95
Tampa, FL	55	13	104	8	103	21	90	16	95
Tampa, FL	60	14	104	8	103	23	91	22	107
Tampa, FL	100	14	104	8	103	24	91	26	122
Toledo, OH	5	0	20	0	40	0	24	0	42
Toledo, OH	10	0	22	0	40	0	24	0	42
Toledo, OH	15	0	38	0	40	0	34	0	45
Toledo, OH	20	0	48	0	42	0	50	0	51
Toledo, OH	25	0	54	0	59	0	55	0	69
Toledo, OH	30	0	69	0	71	0	65	0	69
Toledo, OH	35	1	80	0	71	0	71	0	73
Toledo, OH	40	3	80	4	82	3	80	3	84
Toledo, OH	45	5	83	8	82	8	88	13	90
Toledo, OH	50	11	100	11	86	12	92	18	96
Toledo, OH	55	15	100	14	88	13	97	21	96
Toledo, OH	60	18	104	21	112	13	97	21	96
Toledo, OH	100	19	104	22	112	14	102	21	96
Tucson, AZ	10	0	24	0	29	0	25	0	29
Tucson, AZ	15	0	40	0	42	0	43	0	39
Tucson, AZ	20	0	49	0	45	0	46	0	47
Tucson, AZ	25	0	58	0	54	0	53	0	54
Tucson, AZ	30	0	60	0	60	0	58	0	62
Tucson, AZ	35	0	66	0	70	0	69	0	71
Tucson, AZ	40	1	80	0	75	0	69	0	74
Tucson, AZ	45	5	83	3	81	3	79	4	80

Tucson, AZ	50	14	89	6	81	6	81	7	80
Tucson, AZ	55	15	89	8	84	8	85	7	80
Tucson, AZ	60	16	92	8	84	8	85	7	80
Tucson, AZ	100	16	92	8	84	8	85	7	80
Tulsa, OK	5	0	15	0	12	0	13	0	16
Tulsa, OK	10	0	34	0	31	0	21	0	24
Tulsa, OK	15	0	42	0	34	0	36	0	35
Tulsa, OK	20	0	49	0	43	0	44	0	58
Tulsa, OK	25	0	49	0	58	0	54	0	58
Tulsa, OK	30	0	65	0	67	0	64	0	58
Tulsa, OK	35	0	75	1	78	1	77	0	72
Tulsa, OK	40	10	95	9	90	6	90	1	77
Tulsa, OK	45	19	97	14	91	9	90	10	82
Tulsa, OK	50	23	97	16	91	12	90	21	94
Tulsa, OK	55	33	115	20	91	16	90	28	98
Tulsa, OK	60	36	115	25	112	16	90	35	98
Tulsa, OK	100	41	115	25	112	16	90	39	117
Washington, DC	5	0	22	0	32	0	22	0	26
Washington, DC	10	0	32	0	56	0	35	0	32
Washington, DC	15	0	61	0	67	0	50	0	43
Washington, DC	20	0	69	0	67	0	56	0	64
Washington, DC	25	0	69	0	69	0	66	0	66
Washington, DC	30	3	92	3	80	3	85	1	81
Washington, DC	35	9	92	16	87	8	88	7	91
Washington, DC	40	21	92	26	94	18	94	18	93
Washington, DC	45	37	113	38	98	34	104	39	102
Washington, DC	50	49	122	46	105	43	104	57	106

Washington, DC	55	52	122	47	105	49	117	63	117
Washington, DC	60	56	123	47	105	52	140	68	117
Washington, DC	100	56	123	47	105	54	140	69	117
Wichita, KS	5	0	19	0	10			0	8
Wichita, KS	10	0	26	0	25	0	21	0	25
Wichita, KS	15	0	33	0	39	0	32	0	39
Wichita, KS	20	0	45	0	43	0	44	0	49
Wichita, KS	25	0	56	0	54	0	45	0	49
Wichita, KS	30	0	62	0	59	0	51	0	55
Wichita, KS	35	0	66	1	80	0	69	0	71
Wichita, KS	40	0	67	1	80	1	85	0	71
Wichita, KS	45	1	76	2	86	1	85	0	74
Wichita, KS	50	4	88	2	86	1	85	3	89
Wichita, KS	55	7	88	2	86	2	85	4	89
Wichita, KS	60	7	88	3	86	4	85	7	89
Wichita, KS	100	7	88	3	86	8	87	12	94
Worcester, MA	5	0	12	0	16	0	15	0	14
Worcester, MA	10	0	26	0	31	0	23	0	27
Worcester, MA	15	0	29	0	32	0	34	0	30
Worcester, MA	20	0	36	0	37	0	34	0	34
Worcester, MA	25	0	38	0	43	0	40	0	49
Worcester, MA	30	0	52	0	52	0	50	0	49
Worcester, MA	35	0	53	0	52	0	57	0	49
Worcester, MA	40	0	67	0	60	0	64	0	59
Worcester, MA	45	0	69	0	67	0	69	0	68
Worcester,	50	0	75	0	73	0	70	0	74

MA									
Worcester, MA	55	1	78	0	74	0	72	1	77
Worcester, MA	60	2	80	1	80	0	75	7	87
Worcester, MA	100	15	108	2	80	8	97	14	123

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations (Continued)

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 1999	Highest 8-hour conc. (ppb) 1999	Number of exceedances of 75 ppb 2000	Highest 8-hour conc. (ppb) 2000	Number of exceedances of 75 ppb 2001	Highest 8-hour conc. (ppb) 2001	Number of exceedances of 75 ppb 2002	Highest 8-hour conc. (ppb) 2002
Akron, OH	5	0	33	0	2	0	29	0	34
Akron, OH	10	0	33	0	28	0	29	0	34
Akron, OH	15	0	35	0	41	0	37	0	36
Akron, OH	20	0	37	0	44	0	47	0	39
Akron, OH	25	0	55	0	54	0	55	0	56
Akron, OH	30	0	68	0	60	0	62	1	78
Akron, OH	35	0	70	0	69	0	73	1	78
Akron, OH	40	1	76	0	72	2	78	1	78
Akron, OH	45	8	95	1	76	4	93	6	82
Akron, OH	50	16	95	3	94	11	94	16	102
Akron, OH	55	28	98	6	94	16	100	26	103
Akron, OH	60	32	102	6	94	21	103	32	107
Akron, OH	100	36	113	9	99	23	108	37	112
Albuquerque, NM	10	0	34	0	32	0	31	0	40
Albuquerque, NM	15	0	42	0	41	0	40	0	43
Albuquerque, NM	20	0	49	0	51	0	47	0	47
Albuquerque, NM	25	0	60	0	56	0	53	0	52
Albuquerque, NM	30	0	64	0	61	0	61	0	63
Albuquerque, NM	35	0	69	0	68	0	65	0	68
Albuquerque, NM	40	0	75	0	75	0	70	1	84
Albuquerque, NM	45	1	76	2	78	0	74	4	84
Albuquerque, NM	50	3	87	5	84	1	85	5	84
Albuquerqu	55	3	87	6	84	1	85	9	84

e, NM									
Albuquerque, NM	60	5	87	8	84	1	85	9	84
Albuquerque, NM	100	5	87	8	84	1	85	9	84
Atlanta, GA	5	0	28	0	34	0	28	0	41
Atlanta, GA	10	0	28	0	34	0	28	0	41
Atlanta, GA	15	0	42	0	36	0	51	0	41
Atlanta, GA	20	0	57	0	54	0	55	0	54
Atlanta, GA	25	0	66	0	69	0	65	0	70
Atlanta, GA	30	2	83	2	84	1	88	2	77
Atlanta, GA	35	6	87	4	84	8	88	8	90
Atlanta, GA	40	17	98	20	99	25	95	23	99
Atlanta, GA	45	44	110	48	120	39	108	40	112
Atlanta, GA	50	68	123	61	137	47	114	51	121
Atlanta, GA	55	81	132	68	137	47	114	58	121
Atlanta, GA	60	90	132	70	138	47	114	59	127
Atlanta, GA	100	92	139	70	138	47	114	59	127
Austin, TX	5			0	14	0	9	0	11
Austin, TX	10	0	20	0	19	0	29	0	20
Austin, TX	15	0	32	0	30	0	35	0	33
Austin, TX	20	0	45	0	48	0	42	0	38
Austin, TX	25	0	52	0	50	0	57	0	46
Austin, TX	30	0	66	0	55	0	59	0	59
Austin, TX	35	0	69	0	67	0	64	0	64
Austin, TX	40	2	79	0	75	0	75	0	68
Austin, TX	45	4	81	0	75	0	75	0	75
Austin, TX	50	10	87	4	86	2	80	0	75
Austin, TX	55	14	87	7	86	2	80	4	96
Austin, TX	60	20	97	13	88	5	82	5	96
Austin, TX	100	33	103	19	100	7	85	8	100
Bakersfield, CA	5							0	18
Bakersfield, CA	10	0	48	0	40	0	39	0	40
Bakersfield,	15	0	48	0	44	0	45	0	43

CA									
Bakersfield, CA	20	0	50	0	52	0	67	0	53
Bakersfield, CA	25	0	57	0	54	0	67	0	60
Bakersfield, CA	30	0	64	0	61	0	67	0	62
Bakersfield, CA	35	0	75	0	68	0	72	0	71
Bakersfield, CA	40	7	85	7	88	5	86	2	79
Bakersfield, CA	45	21	92	29	89	15	86	12	87
Bakersfield, CA	50	51	106	59	111	40	92	46	101
Bakersfield, CA	55	78	106	91	117	76	108	76	102
Bakersfield, CA	60	109	112	110	117	104	108	105	114
Bakersfield, CA	100	129	112	118	117	126	115	128	120
Baltimore, MD	5	0	22	0	16	0	22	0	20
Baltimore, MD	10	0	38	0	32	0	27	0	29
Baltimore, MD	15	0	46	0	47	0	39	0	36
Baltimore, MD	20	0	48	0	59	0	41	0	44
Baltimore, MD	25	0	66	0	61	0	61	0	53
Baltimore, MD	30	0	75	0	65	0	69	0	65
Baltimore, MD	35	1	81	1	77	0	75	1	102
Baltimore, MD	40	11	87	7	90	12	94	7	102
Baltimore, MD	45	21	96	16	94	19	95	16	110

Baltimore, MD	50	31	98	21	95	29	104	29	112
Baltimore, MD	55	39	117	28	99	36	115	41	112
Baltimore, MD	60	50	125	30	99	41	115	48	128
Baltimore, MD	100	56	125	33	119	44	129	57	128
Baton Rouge, LA	5	0	16	0	11	0	21		
Baton Rouge, LA	10	0	31	0	29	0	31	0	33
Baton Rouge, LA	15	0	45	0	51	0	47	0	43
Baton Rouge, LA	20	0	62	0	53	0	61	0	58
Baton Rouge, LA	25	0	73	0	64	1	88	0	75
Baton Rouge, LA	30	6	85	4	83	2	88	1	85
Baton Rouge, LA	35	14	92	11	83	12	95	9	92
Baton Rouge, LA	40	21	93	23	99	19	105	11	106
Baton Rouge, LA	45	36	102	40	109	24	105	12	106
Baton Rouge, LA	50	47	106	51	121	26	105	15	106
Baton Rouge, LA	55	53	117	62	121	26	105	16	106
Baton Rouge, LA	60	53	117	62	121	26	105	16	106
Baton Rouge, LA	100	53	117	62	121	26	105	16	106
Biddeford, ME	5	0	27	0	30	0	41	0	44
Biddeford, ME	10	0	27	0	30	0	41	0	44
Biddeford,	15	0	28	0	33	0	41	0	44

ME									
Biddeford, ME	20	0	38	0	44	0	41	0	44
Biddeford, ME	25	0	50	0	49	0	49	0	44
Biddeford, ME	30	0	60	0	63	0	56	0	58
Biddeford, ME	35	0	74	0	71	0	69	0	75
Biddeford, ME	40	1	78	1	82	1	85	0	75
Biddeford, ME	45	4	89	1	82	2	85	5	89
Biddeford, ME	50	6	89	2	82	5	107	10	101
Biddeford, ME	55	12	93	3	89	6	107	15	101
Biddeford, ME	60	12	93	3	89	7	107	18	109
Biddeford, ME	100	16	114	3	89	13	107	21	121
Birmingham, AL	5	0	29	0	40	0	12	0	31
Birmingham, AL	10	0	29	0	40	0	29	0	31
Birmingham, AL	15	0	43	0	40	0	41	0	37
Birmingham, AL	20	0	59	0	50	0	51	0	49
Birmingham, AL	25	0	70	0	59	0	65	0	68
Birmingham, AL	30	0	72	0	69	0	71	0	73
Birmingham, AL	35	7	89	5	85	6	82	2	85
Birmingham, AL	40	27	102	18	92	18	104	13	89
Birmingham, AL	45	33	102	37	99	27	107	20	110

Birmingham, AL	50	44	107	49	118	27	107	26	110
Birmingham, AL	55	48	116	52	118	27	107	29	112
Birmingham, AL	60	49	116	52	118	27	107	29	112
Birmingham, AL	100	49	116	53	118	27	107	29	112
Boston, MA	5	0	13	0	20	0	32	0	34
Boston, MA	10	0	33	0	34	0	32	0	34
Boston, MA	15	0	42	0	40	0	40	0	40
Boston, MA	20	0	61	0	47	0	47	0	41
Boston, MA	25	1	92	0	55	0	54	0	72
Boston, MA	30	1	92	0	63	0	67	0	72
Boston, MA	35	4	92	0	72	1	77	1	88
Boston, MA	40	8	92	2	84	2	77	4	88
Boston, MA	45	13	94	4	99	6	92	10	88
Boston, MA	50	18	95	5	99	10	95	19	102
Boston, MA	55	20	108	6	99	16	98	25	102
Boston, MA	60	22	108	6	99	20	107	29	107
Boston, MA	100	24	112	6	99	23	117	35	134
Buffalo, NY	5	0	12			0	28	0	10
Buffalo, NY	10	0	31	0	26	0	31	0	20
Buffalo, NY	15	0	33	0	34	0	33	0	34
Buffalo, NY	20	0	42	0	39	0	46	0	38
Buffalo, NY	25	0	48	0	55	0	49	0	55
Buffalo, NY	30	0	58	0	58	0	61	0	59
Buffalo, NY	35	1	84	0	70	0	70	0	66
Buffalo, NY	40	1	84	0	70	0	72	0	74
Buffalo, NY	45	5	85	0	74	0	75	1	80
Buffalo, NY	50	7	85	1	80	2	86	4	90
Buffalo, NY	55	10	105	2	80	7	91	9	95
Buffalo, NY	60	14	105	2	80	10	91	15	108
Buffalo, NY	100	22	105	7	100	24	114	29	113
Cedar Rapids, IA	5	0	32	0	25	0	23	0	13

Cedar Rapids, IA	10	0	32	0	25	0	23	0	16
Cedar Rapids, IA	15	0	42	0	42	0	41	0	25
Cedar Rapids, IA	20	0	42	0	42	0	46	0	50
Cedar Rapids, IA	25	0	49	0	52	0	51	0	52
Cedar Rapids, IA	30	0	57	0	58	0	52	0	60
Cedar Rapids, IA	35	0	74	0	66	0	63	0	75
Cedar Rapids, IA	40	0	74	0	66	0	63	0	75
Cedar Rapids, IA	45	1	76	0	74	0	65	0	75
Cedar Rapids, IA	50	1	76	1	77	0	68	0	75
Cedar Rapids, IA	55	3	81	2	90	0	71	1	80
Cedar Rapids, IA	60	8	90	3	90	2	81	2	80
Cedar Rapids, IA	100	8	90	3	90	2	81	2	80
Charlotte, NC	5	0		0		0		0	13
Charlotte, NC	10	0	14	0	19	0		0	34
Charlotte, NC	15	0	39	0	47	0	43	0	35
Charlotte, NC	20	0	52	0	53	0	47	0	46
Charlotte, NC	25	0	54	0	56	0	57	0	74
Charlotte, NC	30	0	68	0	70	0	72	0	74
Charlotte, NC	35	1	77	1	79	3	79	1	82
Charlotte,	40	11	94	9	84	8	81	1	82

NC									
Charlotte, NC	45	30	97	20	90	23	99	14	95
Charlotte, NC	50	40	100	29	101	27	103	25	100
Charlotte, NC	55	56	105	37	126	40	106	39	119
Charlotte, NC	60	61	115	41	126	41	106	41	119
Charlotte, NC	100	63	115	41	126	41	106	50	119
Chicago, IL	5	0	18	0	35	0	22	0	18
Chicago, IL	10	0	33	0	35	0	33	0	34
Chicago, IL	15	0	54	0	50	0	54	0	47
Chicago, IL	20	0	59	0	52	0	61	0	54
Chicago, IL	25	0	68	0	64	0	62	0	75
Chicago, IL	30	2	85	0	72	0	68	0	75
Chicago, IL	35	10	97	5	82	6	90	3	87
Chicago, IL	40	21	107	7	86	16	105	12	90
Chicago, IL	45	27	107	10	101	28	114	24	116
Chicago, IL	50	34	107	10	101	35	114	31	116
Chicago, IL	55	39	107	10	101	37	114	36	127
Chicago, IL	60	41	107	12	101	37	114	38	127
Chicago, IL	100	41	107	12	101	37	114	38	127
Cincinnati, OH	5	0	39	0	51	0	12	0	26
Cincinnati, OH	10	0	39	0	51	0	27	0	26
Cincinnati, OH	15	0	39	0	51	0	46	0	40
Cincinnati, OH	20	0	63	0	57	0	51	0	53
Cincinnati, OH	25	0	63	0	66	0	60	0	57
Cincinnati, OH	30	2	80	0	68	0	74	0	67
Cincinnati, OH	35	10	89	1	83	7	87	3	91

Cincinnati, OH	40	25	94	8	89	19	89	15	92
Cincinnati, OH	45	43	96	13	95	29	105	29	101
Cincinnati, OH	50	56	104	16	98	31	105	38	113
Cincinnati, OH	55	60	125	18	98	33	105	44	113
Cincinnati, OH	60	60	125	20	105	33	105	47	117
Cincinnati, OH	100	60	125	20	105	33	105	47	117
Cleveland, OH	5	0	42	0	44	0	34	0	34
Cleveland, OH	10	0	42	0	44	0	34	0	34
Cleveland, OH	15	0	42	0	44	0	34	0	43
Cleveland, OH	20	0	64	0	57	0	43	0	47
Cleveland, OH	25	0	64	0	57	0	57	0	57
Cleveland, OH	30	0	66	0	67	0	66	0	64
Cleveland, OH	35	1	107	0	68	0	70	0	70
Cleveland, OH	40	4	107	1	78	5	80	1	77
Cleveland, OH	45	12	107	3	89	10	96	5	90
Cleveland, OH	50	20	107	5	89	16	96	13	94
Cleveland, OH	55	32	107	7	89	32	103	19	100
Cleveland, OH	60	36	107	7	89	37	103	33	115
Cleveland, OH	100	38	118	10	101	39	103	41	122

Colorado Springs, CO	5	0	15	0	22	0	13	0	32
Colorado Springs, CO	10	0	26	0	37	0	45	0	32
Colorado Springs, CO	15	0	41	0	40	0	45	0	41
Colorado Springs, CO	20	0	45	0	49	0	49	0	48
Colorado Springs, CO	25	0	55	0	58	0	55	0	50
Colorado Springs, CO	30	0	60	0	58	0	63	0	60
Colorado Springs, CO	35	0	65	0	64	0	63	0	61
Colorado Springs, CO	40	0	65	0	74	0	67	0	72
Colorado Springs, CO	45	0	70	0	74	0	71	0	72
Colorado Springs, CO	50	1	81	0	74	0	71	0	74
Colorado Springs, CO	55	1	81	1	81	0	71	0	74
Colorado Springs, CO	60	1	81	1	81	0	72	0	74
Colorado Springs, CO	100	1	81	1	81	0	72	0	74
Columbus, GA	5	0	27	0	28	0	8	0	11
Columbus, GA	10	0	27	0	28	0	17	0	18
Columbus, GA	15	0	36	0	34	0	34	0	33
Columbus, GA	20	0	47	0	53	0	49	0	51
Columbus, GA	25	0	70	0	55	0	61	0	51

Columbus, GA	30	0	70	0	75	0	73	0	61
Columbus, GA	35	0	75	2	77	1	76	0	67
Columbus, GA	40	2	88	3	79	6	82	0	70
Columbus, GA	45	11	97	5	85	9	82	1	82
Columbus, GA	50	19	98	9	85	9	82	3	82
Columbus, GA	55	24	98	15	93	9	82	5	98
Columbus, GA	60	24	98	22	113	9	82	5	98
Columbus, GA	100	26	101	23	113	9	82	5	98
Columbus, OH	5	0	42	0	35	0	30	0	33
Columbus, OH	10	0	42	0	35	0	30	0	33
Columbus, OH	15	0	42	0	41	0	31	0	40
Columbus, OH	20	0	57	0	54	0	40	0	47
Columbus, OH	25	0	60	0	56	0	58	0	53
Columbus, OH	30	0	69	0	66	0	63	0	62
Columbus, OH	35	1	80	0	73	0	71	0	73
Columbus, OH	40	5	83	1	78	2	80	2	78
Columbus, OH	45	17	91	6	83	18	96	11	95
Columbus, OH	50	26	101	8	85	25	97	23	99
Columbus, OH	55	39	127	12	107	26	97	34	118
Columbus,	60	46	127	12	107	26	97	42	118

OH									
Columbus, OH	100	49	130	14	108	27	102	45	118
Corpus Christi, TX	5			0	9	0	8	0	13
Corpus Christi, TX	10	0	22	0	16	0	26	0	21
Corpus Christi, TX	15	0	42	0	34	0	31	0	37
Corpus Christi, TX	20	0	44	0	44	0	42	0	42
Corpus Christi, TX	25	0	60	0	50	0	47	0	52
Corpus Christi, TX	30	0	70	0	64	0	64	0	58
Corpus Christi, TX	35	0	70	0	65	0	64	0	63
Corpus Christi, TX	40	2	86	0	70	0	73	1	77
Corpus Christi, TX	45	2	86	0	75	1	93	2	83
Corpus Christi, TX	50	6	86	2	83	3	93	3	83
Corpus Christi, TX	55	11	89	5	90	6	93	3	83
Corpus Christi, TX	60	15	91	7	90	6	93	7	87
Corpus Christi, TX	100	15	91	8	90	6	93	10	100
Dallas/Ft Worth, TX	5	0	22	0	20	0	15	0	14
Dallas/Ft Worth, TX	10	0	29	0	32	0	34	0	30
Dallas/Ft Worth, TX	15	0	39	0	43	0	43	0	44
Dallas/Ft Worth, TX	20	0	60	0	49	0	53	0	44
Dallas/Ft Worth, TX	25	0	70	0	64	0	60	0	62

Dallas/Ft Worth, TX	30	1	82	0	65	0	74	0	62
Dallas/Ft Worth, TX	35	3	82	2	82	2	76	2	77
Dallas/Ft Worth, TX	40	16	93	9	91	11	85	12	89
Dallas/Ft Worth, TX	45	26	93	22	96	23	100	22	94
Dallas/Ft Worth, TX	50	36	108	38	108	34	106	43	114
Dallas/Ft Worth, TX	55	45	116	52	109	46	112	46	114
Dallas/Ft Worth, TX	60	55	116	63	111	51	125	50	114
Dallas/Ft Worth, TX	100	64	135	63	111	51	125	54	127
Dayton, OH	5	0	38	0	18	0	34	0	31
Dayton, OH	10	0	38	0	18	0	34	0	31
Dayton, OH	15	0	38	0	36	0	35	0	34
Dayton, OH	20	0	45	0	50	0	45	0	45
Dayton, OH	25	0	55	0	52	0	67	0	58
Dayton, OH	30	0	68	0	66	0	68	0	63
Dayton, OH	35	1	77	0	67	0	75	0	73
Dayton, OH	40	7	86	2	86	5	85	3	81
Dayton, OH	45	14	96	3	86	10	96	17	91
Dayton, OH	50	23	112	3	86	14	96	25	97
Dayton, OH	55	30	112	5	87	15	96	32	97
Dayton, OH	60	33	112	8	96	16	96	38	109
Dayton, OH	100	34	112	9	106	16	96	39	109
Denver, CO	5	0	31	0	21	0	21	0	21
Denver, CO	10	0	36	0	40	0	45	0	36
Denver, CO	15	0	43	0	45	0	45	0	46
Denver, CO	20	0	55	0	51	0	50	0	51
Denver, CO	25	0	55	0	53	0	56	0	53
Denver, CO	30	0	71	0	63	0	72	0	60
Denver, CO	35	0	71	0	67	0	73	0	73
Denver, CO	40	3	81	1	77	1	77	1	78

Denver, CO	45	5	87	10	82	5	83	10	81
Denver, CO	50	11	87	19	89	10	89	21	92
Denver, CO	55	13	87	21	89	12	89	25	94
Denver, CO	60	14	92	22	89	13	90	26	94
Denver, CO	100	14	92	22	89	13	90	26	94
Des Moines, IA	5	0	18	0	35	0	9	0	23
Des Moines, IA	10	0	18	0	35	0	33	0	23
Des Moines, IA	15	0	38	0	50	0	34	0	33
Des Moines, IA	20	0	46	0	50	0	42	0	43
Des Moines, IA	25	0	60	0	50	0	52	0	48
Des Moines, IA	30	0	60	0	55	0	57	0	58
Des Moines, IA	35	0	69	0	66	0	58	0	58
Des Moines, IA	40	0	69	0	70	0	61	0	64
Des Moines, IA	45	0	73	0	71	0	65	0	64
Des Moines, IA	50	2	76	0	71	0	65	0	68
Des Moines, IA	55	2	76	1	77	0	65	0	68
Des Moines, IA	60	2	76	1	77	0	69	0	68
Des Moines, IA	100	3	76	2	86	0	69	0	68
Detroit, MI	5	0	32	0	10	0	42	0	30
Detroit, MI	10	0	32	0	25	0	42	0	30
Detroit, MI	15	0	36	0	40	0	42	0	35
Detroit, MI	20	0	54	0	50	0	52	0	46
Detroit, MI	25	0	59	0	61	0	61	0	63
Detroit, MI	30	1	82	0	62	0	63	0	71
Detroit, MI	35	4	82	0	73	2	84	2	78

Detroit, MI	40	9	104	1	86	7	84	5	95
Detroit, MI	45	19	104	2	86	11	94	15	95
Detroit, MI	50	23	104	3	86	18	103	24	114
Detroit, MI	55	29	105	3	86	22	105	26	114
Detroit, MI	60	31	105	4	86	27	105	29	114
Detroit, MI	100	33	106	6	99	27	105	29	114
El Paso, TX	5					0	19		
El Paso, TX	10	0	38	0	33	0	36	0	43
El Paso, TX	15	0	51	0	48	0	46	0	45
El Paso, TX	20	0	63	0	53	0	61	0	63
El Paso, TX	25	0	69	0	70	0	73	0	64
El Paso, TX	30	0	70	0	70	0	75	0	71
El Paso, TX	35	2	77	2	80	3	90	1	82
El Paso, TX	40	3	79	6	81	4	90	3	83
El Paso, TX	45	4	86	15	83	5	90	5	101
El Paso, TX	50	4	86	24	97	11	90	8	101
El Paso, TX	55	4	86	24	97	11	90	12	105
El Paso, TX	60	4	86	24	97	11	90	12	105
El Paso, TX	100	4	86	24	97	11	90	12	105
Evansville, IN	5	0	27	0	46	0	6	0	9
Evansville, IN	10	0	27	0	46	0	25	0	28
Evansville, IN	15	0	32	0	46	0	36	0	28
Evansville, IN	20	0	51	0	53	0	40	0	37
Evansville, IN	25	0	53	0	60	0	61	0	51
Evansville, IN	30	0	58	0	70	0	75	0	59
Evansville, IN	35	1	76	0	70	3	78	0	74
Evansville, IN	40	6	93	3	81	6	81	2	79
Evansville, IN	45	16	98	9	93	8	81	10	90

Evansville, IN	50	29	99	16	93	11	91	21	92
Evansville, IN	55	33	99	20	93	11	91	35	106
Evansville, IN	60	35	104	20	93	13	91	37	113
Evansville, IN	100	37	105	20	93	13	91	37	113
Fresno, CA	5			0	18				
Fresno, CA	10	0	26	0	24			0	26
Fresno, CA	15	0	48	0	44	0	44	0	41
Fresno, CA	20	0	54	0	51	0	55	0	51
Fresno, CA	25	0	65	0	67	0	65	0	60
Fresno, CA	30	1	78	1	82	1	79	0	68
Fresno, CA	35	9	92	3	82	2	81	2	78
Fresno, CA	40	19	92	15	87	13	95	11	86
Fresno, CA	45	44	95	31	89	34	101	31	92
Fresno, CA	50	82	104	54	122	72	110	68	98
Fresno, CA	55	100	107	92	122	106	120	102	109
Fresno, CA	60	114	123	108	131	129	120	129	113
Fresno, CA	100	121	123	118	131	145	120	146	132
Ft. Wayne, IN	5	0	31	0	8	0	30	0	26
Ft. Wayne, IN	10	0	31	0	8	0	30	0	26
Ft. Wayne, IN	15	0	31	0	30	0	39	0	26
Ft. Wayne, IN	20	0	49	0	41	0	46	0	38
Ft. Wayne, IN	25	0	53	0	49	0	57	0	48
Ft. Wayne, IN	30	0	60	0	60	0	57	0	60
Ft. Wayne, IN	35	1	78	0	68	0	70	1	82
Ft. Wayne, IN	40	1	78	0	72	0	74	1	82
Ft. Wayne,	45	4	88	1	80	3	93	3	84

IN									
Ft. Wayne, IN	50	6	88	3	91	4	93	11	98
Ft. Wayne, IN	55	15	94	4	96	6	93	14	100
Ft. Wayne, IN	60	18	94	4	96	7	93	17	100
Ft. Wayne, IN	100	23	94	6	98	7	93	21	100
Grand Rapids, MI	5	0	44	0	29	0	30	0	31
Grand Rapids, MI	10	0	44	0	29	0	30	0	31
Grand Rapids, MI	15	0	44	0	34	0	38	0	34
Grand Rapids, MI	20	0	44	0	41	0	42	0	46
Grand Rapids, MI	25	0	54	0	54	0	50	0	55
Grand Rapids, MI	30	0	57	0	55	0	55	0	61
Grand Rapids, MI	35	0	65	0	63	0	61	0	70
Grand Rapids, MI	40	2	86	0	72	0	68	0	70
Grand Rapids, MI	45	7	104	0	73	2	80	6	95
Grand Rapids, MI	50	11	104	1	92	4	85	12	95
Grand Rapids, MI	55	16	104	1	92	10	93	16	95
Grand Rapids, MI	60	21	104	1	92	14	93	20	95
Grand Rapids, MI	100	26	104	3	102	15	93	23	99
Greensboro, NC	5	0	44	0	11	0	20	0	26
Greensboro, NC	10	0	44	0	14	0	20	0	26

Greensboro, NC	15	0	44	0	25	0	29	0	33
Greensboro, NC	20	0	49	0	44	0	42	0	43
Greensboro, NC	25	0	56	0	49	0	49	0	56
Greensboro, NC	30	0	64	0	65	0	64	0	64
Greensboro, NC	35	1	79	0	69	0	75	0	68
Greensboro, NC	40	4	79	0	74	4	80	0	73
Greensboro, NC	45	14	88	4	82	12	97	4	86
Greensboro, NC	50	23	91	10	93	20	97	15	92
Greensboro, NC	55	30	97	16	99	24	98	24	92
Greensboro, NC	60	35	97	19	99	29	99	34	104
Greensboro, NC	100	36	100	20	99	29	99	44	115
Honolulu, HI	5	0	16	0	11	0	10	0	9
Honolulu, HI	10	0	23	0	22	0	25	0	26
Honolulu, HI	15	0	29	0	30	0	34	0	32
Honolulu, HI	20	0	38	0	37	0	40	0	40
Honolulu, HI	25	0	49	0	41	0	40	0	40
Honolulu, HI	30	0	49	0	44	0	40	0	45
Honolulu, HI	35	0	49	0	44	0	46	0	45
Honolulu, HI	40	0	50	0	44	0	46	0	45
Honolulu, HI	45	0	50	0	48	0	46	0	45
Honolulu, HI	50	0	50	0	48	0	46	0	45
Honolulu, HI	55	0	50	0	48	0	46	0	45
Honolulu, HI	60	0	50	0	48	0	46	0	45
Honolulu, HI	100	0	50	0	48	0	46	0	45
Houston, TX	5			0	15	0	18	0	22
Houston,	10	0	59	0	36	0	42	0	45

TX									
Houston, TX	15	0	59	0	66	0	54	0	65
Houston, TX	20	0	69	1	77	2	79	1	78
Houston, TX	25	1	91	12	98	8	116	3	99
Houston, TX	30	8	110	18	98	18	116	13	108
Houston, TX	35	31	120	31	121	35	116	27	108
Houston, TX	40	46	126	47	121	46	138	39	121
Houston, TX	45	64	135	60	130	58	138	46	123
Houston, TX	50	75	172	63	130	63	138	51	144
Houston, TX	55	80	172	70	130	64	138	53	144
Houston, TX	60	81	172	72	144	65	138	55	144
Houston, TX	100	84	172	72	144	65	138	55	144
Huntsville, AL	5	0	8	0	21	0	9	0	16
Huntsville, AL	10	0	30	0	26	0	28	0	28
Huntsville, AL	15	0	39	0	40	0	39	0	38
Huntsville, AL	20	0	52	0	57	0	59	0	44
Huntsville, AL	25	0	61	0	63	0	65	0	53
Huntsville, AL	30	0	72	0	74	0	67	0	61
Huntsville, AL	35	0	74	0	74	1	80	0	73
Huntsville, AL	40	5	88	1	76	2	80	2	87

Huntsville, AL	45	13	91	7	88	5	80	3	87
Huntsville, AL	50	25	93	10	88	7	80	3	87
Huntsville, AL	55	29	98	15	100	8	80	4	87
Huntsville, AL	60	31	98	17	100	8	80	6	87
Huntsville, AL	100	31	98	18	100	9	81	8	92
Indianapolis, IN	5	0	38	0	24	0	38	0	27
Indianapolis, IN	10	0	38	0	24	0	38	0	27
Indianapolis, IN	15	0	38	0	36	0	38	0	27
Indianapolis, IN	20	0	40	0	44	0	49	0	46
Indianapolis, IN	25	0	52	0	53	0	56	0	56
Indianapolis, IN	30	0	62	0	65	0	74	0	74
Indianapolis, IN	35	0	73	0	73	0	75	0	74
Indianapolis, IN	40	5	85	2	80	10	98	4	83
Indianapolis, IN	45	16	90	5	81	21	102	16	98
Indianapolis, IN	50	30	101	8	90	26	102	27	100
Indianapolis, IN	55	40	101	11	90	34	102	36	107
Indianapolis, IN	60	44	103	11	90	37	103	41	131
Indianapolis, IN	100	46	103	14	100	37	103	43	131
Jackson, MS	5	0	2	0	33	0	12	0	32
Jackson,	10	0	12	0	33	0	27	0	32

MS									
Jackson, MS	15	0	32	0	33	0	33	0	32
Jackson, MS	20	0	49	0	46	0	46	0	47
Jackson, MS	25	0	61	0	48	0	58	0	57
Jackson, MS	30	0	69	0	70	0	65	0	63
Jackson, MS	35	0	70	0	71	0	70	0	68
Jackson, MS	40	4	82	1	78	0	75	0	75
Jackson, MS	45	10	93	6	83	4	79	0	75
Jackson, MS	50	15	93	10	83	6	81	2	88
Jackson, MS	55	18	96	14	95	6	81	2	88
Jackson, MS	60	20	96	16	95	6	81	3	90
Jackson, MS	100	20	96	17	95	6	81	3	90
Jacksonville, FL	5			0	17				
Jacksonville, FL	10	0	26	0	29	0	23	0	29
Jacksonville, FL	15	0	38	0	41	0	42	0	40
Jacksonville, FL	20	0	52	0	50	0	49	0	51
Jacksonville, FL	25	0	57	0	60	0	59	0	55
Jacksonville, FL	30	0	61	0	75	0	75	0	72
Jacksonville, FL	35	0	69	2	79	1	77	0	72
Jacksonville, FL	40	3	78	6	85	1	77	0	73

Jacksonville, FL	45	9	86	9	85	2	78	1	76
Jacksonville, FL	50	12	87	11	94	4	80	1	76
Jacksonville, FL	55	12	87	11	94	5	80	1	76
Jacksonville, FL	60	12	87	11	94	5	80	1	76
Jacksonville, FL	100	12	87	11	94	6	83	1	76
Johnstown, PA	5	0	9	0	10	0	4	0	29
Johnstown, PA	10	0	26	0	24	0	26	0	29
Johnstown, PA	15	0	41	0	40	0	41	0	33
Johnstown, PA	20	0	53	0	46	0	49	0	46
Johnstown, PA	25	0	53	0	61	0	59	0	54
Johnstown, PA	30	0	64	0	64	0	66	0	59
Johnstown, PA	35	1	76	0	68	0	73	0	71
Johnstown, PA	40	3	76	1	76	2	77	2	77
Johnstown, PA	45	5	87	3	80	7	90	9	82
Johnstown, PA	50	14	94	6	86	12	90	18	88
Johnstown, PA	55	19	94	8	89	17	96	20	90
Johnstown, PA	60	19	94	10	98	18	96	21	97
Johnstown, PA	100	21	108	10	98	18	96	21	97
Kansas City, MO	5	0	11	0	10	0	11	0	13
Kansas	10	0	34	0	27	0	20	0	22

City, MO									
Kansas City, MO	15	0	36	0	36	0	39	0	40
Kansas City, MO	20	0	49	0	48	0	55	0	45
Kansas City, MO	25	0	54	0	57	0	63	0	48
Kansas City, MO	30	0	67	0	74	0	65	0	64
Kansas City, MO	35	1	78	0	75	0	68	0	75
Kansas City, MO	40	5	105	1	80	3	78	3	83
Kansas City, MO	45	11	105	9	99	10	92	6	83
Kansas City, MO	50	16	105	17	99	16	92	16	89
Kansas City, MO	55	18	105	24	99	19	92	28	102
Kansas City, MO	60	21	105	29	103	19	92	31	102
Kansas City, MO	100	21	105	33	103	20	92	33	102
Kingston, NY	5	0	16	0					
Kingston, NY	10	0	16	0	18	0	22		
Kingston, NY	15	0	32	0	28	0	27	0	24
Kingston, NY	20	0	36	0	38	0	32	0	38
Kingston, NY	25	0	40	0	40	0	39	0	47
Kingston, NY	30	0	44	0	48	0	51	0	51
Kingston, NY	35	0	68	0	55	0	54	0	56
Kingston, NY	40	0	68	0	57	0	61	0	58

Kingston, NY	45	0	68	0	74	0	74	0	70
Kingston, NY	50	0	72	0	74	0	74	0	70
Kingston, NY	55	2	80	2	82	1	81	3	79
Kingston, NY	60	6	82	2	82	4	91	6	81
Kingston, NY	100	10	96	5	91	11	91	16	89
Knoxville, TN	5			0	15				
Knoxville, TN	10	0	15	0	20	0	23	0	35
Knoxville, TN	15	0	27	0	32	0	41	0	45
Knoxville, TN	20	0	44	0	49	0	41	0	51
Knoxville, TN	25	0	52	0	63	0	56	0	57
Knoxville, TN	30	0	64	0	71	0	72	0	70
Knoxville, TN	35	0	72	3	82	0	73	2	83
Knoxville, TN	40	2	91	13	88	4	84	5	91
Knoxville, TN	45	12	101	28	99	12	92	14	93
Knoxville, TN	50	34	121	41	99	24	92	33	105
Knoxville, TN	55	67	121	48	122	30	96	47	105
Knoxville, TN	60	88	121	51	122	32	100	56	105
Knoxville, TN	100	96	121	51	122	33	100	63	107
Lafayette, LA	5			0	16	0	15	0	
Lafayette,	10	0	23	0	20	0	26	0	22

LA									
Lafayette, LA	15	0	33	0	39	0	39	0	32
Lafayette, LA	20	0	49	0	43	0	53	0	43
Lafayette, LA	25	0	61	0	57	0	60	0	53
Lafayette, LA	30	0	66	0	71	0	68	0	59
Lafayette, LA	35	2	79	0	75	0	68	0	67
Lafayette, LA	40	3	80	1	80	0	69	1	81
Lafayette, LA	45	7	80	1	80	1	77	1	81
Lafayette, LA	50	10	90	3	80	2	78	1	81
Lafayette, LA	55	14	90	9	89	2	78	2	81
Lafayette, LA	60	16	90	15	95	5	85	2	81
Lafayette, LA	100	16	90	19	113	5	85	3	83
Lake Charles, LA	5	0	14			0	14		
Lake Charles, LA	10	0	38	0	20	0	18	0	22
Lake Charles, LA	15	0	51	0	37	0	35	0	38
Lake Charles, LA	20	0	54	0	51	0	49	0	53
Lake Charles, LA	25	0	73	0	60	0	61	0	60
Lake Charles, LA	30	1	79	0	67	0	73	0	73
Lake Charles, LA	35	4	88	4	87	0	73	0	73
Lake Charles, LA	40	7	88	7	87	2	78	1	76

Lake Charles, LA	45	13	93	15	95	4	78	2	81
Lake Charles, LA	50	16	95	19	95	7	93	3	81
Lake Charles, LA	55	16	95	23	95	9	93	4	81
Lake Charles, LA	60	16	95	23	95	9	93	4	81
Lake Charles, LA	100	16	95	23	95	9	93	4	81
Las Vegas, NV	5								
Las Vegas, NV	10	0	39	0	42	0	37	0	33
Las Vegas, NV	15	0	51	0	43	0	45	0	47
Las Vegas, NV	20	0	54	0	51	0	55	0	54
Las Vegas, NV	25	0	57	0	59	0	59	0	58
Las Vegas, NV	30	0	71	0	62	0	59	0	63
Las Vegas, NV	35	1	81	0	67	0	73	0	71
Las Vegas, NV	40	3	81	2	79	0	75	2	82
Las Vegas, NV	45	7	81	6	79	10	82	9	86
Las Vegas, NV	50	14	89	18	86	21	90	19	87
Las Vegas, NV	55	24	92	24	86	27	94	27	92
Las Vegas, NV	60	26	92	28	86	27	94	32	93
Las Vegas, NV	100	32	92	28	86	28	94	33	93
Lexington, KY	5	0	35	0	40	0	8	0	19
Lexington,	10	0	35	0	40	0	25	0	33

KY									
Lexington, KY	15	0	35	0	42	0	41	0	33
Lexington, KY	20	0	43	0	46	0	49	0	44
Lexington, KY	25	0	46	0	60	0	62	0	49
Lexington, KY	30	0	62	0	62	0	62	0	61
Lexington, KY	35	0	74	0	69	1	78	0	73
Lexington, KY	40	3	86	0	74	1	78	2	77
Lexington, KY	45	8	86	2	78	5	91	4	93
Lexington, KY	50	22	87	3	78	6	91	11	93
Lexington, KY	55	30	91	4	78	6	91	15	93
Lexington, KY	60	35	91	5	90	7	91	16	93
Lexington, KY	100	40	101	5	90	7	91	16	93
Lincoln, NE	5	0	15	0	22	0	26	0	27
Lincoln, NE	10	0	15	0	22	0	26	0	27
Lincoln, NE	15	0	29	0	27	0	29	0	27
Lincoln, NE	20	0	38	0	41	0	35	0	34
Lincoln, NE	25	0	51	0	48	0	44	0	52
Lincoln, NE	30	0	52	0	49	0	49	0	52
Lincoln, NE	35	0	52	0	52	0	50	0	54
Lincoln, NE	40	0	52	0	59	0	51	0	56
Lincoln, NE	45	0	61	0	59	0	51	0	59
Lincoln, NE	50	0	61	0	59	0	58	0	59
Lincoln, NE	55	0	61	0	59	0	61	0	59
Lincoln, NE	60	0	61	0	59	0	61	0	59
Lincoln, NE	100	0	61	0	59	0	61	0	59
Little Rock, AR	5	0	25	0	26	0	14	0	9

Little Rock, AR	10	0	26	0	32	0	24	0	23
Little Rock, AR	15	0	33	0	45	0	30	0	34
Little Rock, AR	20	0	39	0	45	0	42	0	40
Little Rock, AR	25	0	56	0	58	0	63	0	53
Little Rock, AR	30	0	68	0	58	0	63	0	63
Little Rock, AR	35	0	68	0	64	0	66	0	72
Little Rock, AR	40	0	74	0	70	0	72	0	72
Little Rock, AR	45	1	76	1	76	1	78	5	82
Little Rock, AR	50	5	91	7	86	8	86	11	90
Little Rock, AR	55	13	98	19	92	15	88	16	90
Little Rock, AR	60	14	98	28	105	17	88	18	91
Little Rock, AR	100	15	98	29	105	17	88	20	91
Los Angeles, CA	5	0	18	0	27	0	35		
Los Angeles, CA	10	0	45	0	51	0	48	0	46
Los Angeles, CA	15	0	66	0	56	0	58	0	52
Los Angeles, CA	20	0	66	1	86	0	71	1	84
Los Angeles, CA	25	3	84	7	96	6	106	2	89

Los Angeles, CA	30	13	90	28	117	35	128	29	144
Los Angeles, CA	35	27	98	62	117	60	128	60	144
Los Angeles, CA	40	40	103	75	117	76	128	86	144
Los Angeles, CA	45	43	108	79	117	80	128	98	144
Los Angeles, CA	50	43	108	81	121	82	134	103	144
Los Angeles, CA	55	43	108	82	146	82	134	103	144
Los Angeles, CA	60	43	108	82	146	82	134	103	144
Los Angeles, CA	100	43	108	82	146	82	134	103	144
Louisville, KY	5	0	41	0	46	0	24	0	21
Louisville, KY	10	0	41	0	46	0	27	0	30
Louisville, KY	15	0	41	0	46	0	42	0	41
Louisville, KY	20	0	55	0	59	0	55	0	55
Louisville, KY	25	0	73	0	63	0	59	0	61
Louisville, KY	30	0	73	0	70	2	81	0	70
Louisville, KY	35	13	85	3	92	8	100	3	82
Louisville, KY	40	30	96	8	92	22	100	20	101

Louisville, KY	45	57	107	20	92	27	100	32	104
Louisville, KY	50	70	107	24	102	28	100	46	112
Louisville, KY	55	75	109	26	102	31	100	47	112
Louisville, KY	60	76	109	26	102	31	100	47	112
Louisville, KY	100	77	109	26	102	31	100	47	112
Madison, WI	5	0	33	0	23	0	34	0	32
Madison, WI	10	0	33	0	23	0	34	0	32
Madison, WI	15	0	33	0	32	0	34	0	32
Madison, WI	20	0	34	0	36	0	37	0	40
Madison, WI	25	0	54	0	49	0	44	0	47
Madison, WI	30	0	54	0	52	0	53	0	54
Madison, WI	35	0	65	0	59	0	58	0	62
Madison, WI	40	0	66	0	64	0	64	0	71
Madison, WI	45	0	70	0	72	0	67	1	77
Madison, WI	50	2	83	0	72	0	69	2	80
Madison, WI	55	3	83	0	72	0	75	3	80
Madison, WI	60	7	86	2	77	1	78	6	84
Madison, WI	100	12	95	3	86	5	91	9	87
Memphis, TN	5	0	21	0	16	0	10	0	29
Memphis,	10	0	29	0	28	0	26	0	29

TN									
Memphis, TN	15	0	38	0	35	0	37	0	34
Memphis, TN	20	0	50	0	48	0	49	0	50
Memphis, TN	25	0	51	0	60	0	56	0	56
Memphis, TN	30	1	89	0	64	0	62	0	73
Memphis, TN	35	1	89	3	83	1	79	1	78
Memphis, TN	40	9	96	4	83	3	79	5	93
Memphis, TN	45	20	106	17	98	15	98	14	106
Memphis, TN	50	35	106	35	98	28	114	20	106
Memphis, TN	55	43	108	45	98	30	114	26	107
Memphis, TN	60	53	110	49	106	31	114	33	107
Memphis, TN	100	56	110	50	106	31	114	33	107
Miami, FL	10	0	25			0	28	0	30
Miami, FL	15	0	50	0	41	0	42	0	43
Miami, FL	20	0	61	0	69	0	52	0	49
Miami, FL	25	0	61	0	69	0	57	0	57
Miami, FL	30	0	68	1	78	0	67	0	64
Miami, FL	35	1	77	2	78	0	73	0	69
Miami, FL	40	2	82	2	78	1	78	0	73
Miami, FL	45	5	94	5	81	3	79	1	90
Miami, FL	50	7	94	7	81	4	85	1	90
Miami, FL	55	8	96	7	81	4	85	1	90
Miami, FL	60	10	96	9	86	5	98	1	90
Miami, FL	100	10	96	9	86	5	98	1	90
Milwaukee, WI	5	0	48	0	29	0	46	0	27
Milwaukee,	10	0	48	0	29	0	46	0	30

WI									
Milwaukee, WI	15	0	48	0	30	0	46	0	37
Milwaukee, WI	20	0	48	0	46	0	46	0	46
Milwaukee, WI	25	0	54	0	59	0	51	0	55
Milwaukee, WI	30	0	62	0	59	0	60	0	64
Milwaukee, WI	35	1	81	0	64	0	67	0	71
Milwaukee, WI	40	2	81	0	75	0	73	2	77
Milwaukee, WI	45	7	87	2	80	2	105	4	81
Milwaukee, WI	50	11	102	3	83	5	105	11	89
Milwaukee, WI	55	15	102	5	88	7	105	17	90
Milwaukee, WI	60	23	102	6	88	14	118	20	106
Milwaukee, WI	100	28	104	8	91	18	118	24	106
Mobile, AL	5	0	20	0	3	0	10	0	22
Mobile, AL	10	0	20	0	31	0	21	0	22
Mobile, AL	15	0	39	0	36	0	34	0	36
Mobile, AL	20	0	51	0	57	0	48	0	49
Mobile, AL	25	0	65	0	65	0	58	0	56
Mobile, AL	30	0	66	0	72	0	71	0	66
Mobile, AL	35	4	79	2	84	1	76	0	74
Mobile, AL	40	19	88	9	95	2	77	1	79
Mobile, AL	45	23	91	18	95	2	77	3	85
Mobile, AL	50	28	97	22	95	2	77	5	85
Mobile, AL	55	29	97	26	95	2	77	6	85
Mobile, AL	60	31	97	29	98	5	89	6	85
Mobile, AL	100	32	97	32	100	5	89	6	85
Modesto, CA	5	0	11	0	18			0	9

Modesto, CA	10	0	30	0	26	0	33	0	27
Modesto, CA	15	0	44	0	35	0	42	0	42
Modesto, CA	20	0	54	0	44	0	49	0	53
Modesto, CA	25	0	68	0	47	0	65	0	70
Modesto, CA	30	0	72	0	61	0	70	0	75
Modesto, CA	35	1	81	0	72	0	74	2	78
Modesto, CA	40	4	85	4	91	3	78	6	83
Modesto, CA	45	8	85	17	92	9	89	15	93
Modesto, CA	50	19	90	24	92	16	95	27	102
Modesto, CA	55	22	95	28	93	22	97	36	104
Modesto, CA	60	23	95	28	93	22	97	39	104
Modesto, CA	100	24	104	29	107	23	100	40	113
Muskegon, MI	5	0	40	0	17	0	35	0	34
Muskegon, MI	10	0	40	0	17	0	35	0	34
Muskegon, MI	15	0	40	0	29	0	35	0	37
Muskegon, MI	20	0	43	0	44	0	44	0	42
Muskegon, MI	25	0	50	0	54	0	48	0	58
Muskegon, MI	30	0	65	0	58	0	55	0	68
Muskegon, MI	35	0	70	0	61	0	57	1	82
Muskegon,	40	3	92	0	70	0	72	2	82

MI									
Muskegon, MI	45	7	92	2	78	5	83	3	82
Muskegon, MI	50	11	95	4	78	8	92	5	88
Muskegon, MI	55	14	95	5	78	9	99	7	88
Muskegon, MI	60	20	97	7	80	13	99	15	96
Muskegon, MI	100	32	125	9	111	17	101	21	110
Nashville, TN	5	0	27	0	23	0	22	0	16
Nashville, TN	10	0	33	0	24	0	31	0	32
Nashville, TN	15	0	40	0	37	0	43	0	38
Nashville, TN	20	0	47	0	55	0	47	0	42
Nashville, TN	25	0	71	0	59	0	72	0	55
Nashville, TN	30	1	77	1	77	0	72	0	71
Nashville, TN	35	2	82	4	89	1	76	2	85
Nashville, TN	40	17	95	13	89	11	86	9	92
Nashville, TN	45	45	107	25	92	22	97	18	96
Nashville, TN	50	66	107	41	103	25	97	28	104
Nashville, TN	55	82	107	48	108	26	103	36	104
Nashville, TN	60	86	119	49	108	26	103	37	108
Nashville, TN	100	88	119	49	108	26	103	37	108
New Orleans, LA	5			0	9	0	15		

New Orleans, LA	10	0	27	0	23	0	30	0	26
New Orleans, LA	15	0	48	0	44	0	44	0	43
New Orleans, LA	20	0	57	0	54	0	58	0	57
New Orleans, LA	25	0	65	0	63	0	65	0	61
New Orleans, LA	30	1	80	0	75	0	72	0	64
New Orleans, LA	35	1	80	2	84	1	78	0	75
New Orleans, LA	40	9	97	8	89	2	78	3	77
New Orleans, LA	45	17	97	13	90	11	93	3	77
New Orleans, LA	50	29	97	23	95	16	93	5	84
New Orleans, LA	55	35	97	27	107	19	94	6	94
New Orleans, LA	60	36	97	30	107	19	94	6	94
New Orleans, LA	100	36	97	30	107	19	94	6	94
New York City, NY	5	0	34	0	37	0	30	0	34
New York City, NY	10	0	50	0	61	0	45	0	41
New York City, NY	15	0	61	0	68	0	54	0	45
New York City, NY	20	1	83	0	68	0	61	0	56
New York City, NY	25	3	87	0	68	0	66	1	107
New York City, NY	30	4	87	0	70	1	78	4	107
New York City, NY	35	13	94	4	86	7	94	13	107
New York	40	20	115	9	91	17	103	20	107

City, NY									
New York City, NY	45	30	115	20	102	28	103	38	116
New York City, NY	50	42	122	25	114	40	107	48	116
New York City, NY	55	48	122	26	114	43	110	56	129
New York City, NY	60	51	122	26	114	47	120	60	129
New York City, NY	100	55	135	29	131	49	122	63	139
Oakland, CA	5	0	26	0	26	0	30	0	28
Oakland, CA	10	0	38	0	37	0	40	0	42
Oakland, CA	15	0	61	0	68	0	59	0	48
Oakland, CA	20	1	77	0	71	0	70	0	66
Oakland, CA	25	6	99	4	94	1	79	0	70
Oakland, CA	30	8	99	6	114	5	87	6	95
Oakland, CA	35	10	99	7	114	10	102	12	106
Oakland, CA	40	14	122	7	114	10	102	12	106
Oakland, CA	45	15	122	7	114	10	102	12	106
Oakland, CA	50	15	122	7	114	10	102	12	106
Oakland, CA	55	15	122	7	114	10	102	12	106
Oakland, CA	60	15	122	7	114	10	102	12	106
Oakland, CA	100	15	122	7	114	10	102	12	106
Oklahoma City, OK	5			0	9	0	10	0	9

Oklahoma City, OK	10	0	29	0	20	0	26	0	23
Oklahoma City, OK	15	0	37	0	34	0	36	0	33
Oklahoma City, OK	20	0	46	0	42	0	45	0	45
Oklahoma City, OK	25	0	57	0	58	0	54	0	52
Oklahoma City, OK	30	0	65	0	69	0	56	0	60
Oklahoma City, OK	35	0	66	0	69	0	69	0	67
Oklahoma City, OK	40	1	77	0	72	3	79	1	86
Oklahoma City, OK	45	1	77	1	86	4	79	3	86
Oklahoma City, OK	50	4	88	3	86	9	84	5	86
Oklahoma City, OK	55	10	98	10	87	17	86	12	91
Oklahoma City, OK	60	17	98	17	87	19	86	15	91
Oklahoma City, OK	100	22	98	22	90	24	91	16	91
Omaha, NE	5	0	31	0	30	0		0	32
Omaha, NE	10	0	31	0	30	0	27	0	32
Omaha, NE	15	0	40	0	34	0	36	0	32
Omaha, NE	20	0	52	0	46	0	45	0	47
Omaha, NE	25	0	52	0	53	0	53	0	52
Omaha, NE	30	0	63	0	56	0	60	0	63
Omaha, NE	35	0	70	0	70	0	69	0	65
Omaha, NE	40	0	75	0	75	0	70	0	68
Omaha, NE	45	0	75	1	77	2	84	1	77
Omaha, NE	50	1	77	3	77	3	84	3	83
Omaha, NE	55	2	80	3	77	3	84	5	83
Omaha, NE	60	4	86	4	78	4	84	7	86
Omaha, NE	100	5	91	4	78	4	84	7	86
Orlando, FL	5								

Orlando, FL	10	0	23	0	22	0	30	0	26
Orlando, FL	15	0	37	0	37	0	41	0	44
Orlando, FL	20	0	49	0	65	0	49	0	58
Orlando, FL	25	0	64	0	72	0	65	0	60
Orlando, FL	30	0	65	0	75	0	65	0	66
Orlando, FL	35	0	72	2	80	1	78	2	81
Orlando, FL	40	5	89	8	87	4	86	4	84
Orlando, FL	45	12	91	10	95	6	86	7	89
Orlando, FL	50	14	96	12	95	8	87	7	89
Orlando, FL	55	15	96	14	95	9	87	7	89
Orlando, FL	60	15	96	15	95	11	87	7	89
Orlando, FL	100	15	96	15	95	11	87	7	89
Philadelphia, PA	5	0	32	0	26	0	28	0	31
Philadelphia, PA	10	0	38	0	44	0	36	0	40
Philadelphia, PA	15	0	51	0	48	0	56	0	43
Philadelphia, PA	20	0	57	0	61	0	56	0	55
Philadelphia, PA	25	0	58	0	68	0	68	0	60
Philadelphia, PA	30	0	65	0	70	1	77	1	86
Philadelphia, PA	35	1	78	3	77	4	77	3	90
Philadelphia, PA	40	10	81	12	110	14	89	12	102
Philadelphia, PA	45	23	107	19	110	26	91	26	102
Philadelphia, PA	50	30	115	24	110	34	103	38	117
Philadelphia, PA	55	40	126	30	110	41	106	48	117
Philadelphia, PA	60	51	126	31	110	45	111	53	131
Philadelphia, PA	100	53	126	34	133	50	119	60	131

Phoenix, AZ	5								
Phoenix, AZ	10			0	34	0	38	0	39
Phoenix, AZ	15	0	47	0	53	0	47	0	48
Phoenix, AZ	20	0	65	0	61	0	52	0	53
Phoenix, AZ	25	0	65	0	75	0	58	0	58
Phoenix, AZ	30	0	71	2	78	0	70	0	68
Phoenix, AZ	35	2	84	3	78	1	76	0	75
Phoenix, AZ	40	15	92	14	83	5	80	6	83
Phoenix, AZ	45	35	92	30	86	19	87	19	86
Phoenix, AZ	50	60	99	51	90	33	89	31	92
Phoenix, AZ	55	82	99	67	95	40	93	40	103
Phoenix, AZ	60	85	99	71	95	42	99	43	107
Phoenix, AZ	100	85	99	72	95	42	99	43	107
Pittsburgh, PA	5	0	15	0	23	0	16	0	11
Pittsburgh, PA	10	0	34	0	33	0	28	0	25
Pittsburgh, PA	15	0	43	0	48	0	39	0	38
Pittsburgh, PA	20	0	55	0	55	0	55	0	50
Pittsburgh, PA	25	0	75	0	66	0	63	0	70
Pittsburgh, PA	30	2	78	0	72	0	74	0	70
Pittsburgh, PA	35	6	79	1	78	3	85	1	77
Pittsburgh, PA	40	12	92	2	78	14	95	12	93
Pittsburgh, PA	45	21	92	12	90	28	99	21	98
Pittsburgh, PA	50	33	101	13	90	39	101	36	104
Pittsburgh, PA	55	43	112	16	97	41	117	43	108
Pittsburgh, PA	60	44	120	16	97	41	117	44	108
Pittsburgh,	100	47	134	18	105	41	117	45	115

PA									
Portland, OR	5	0	34	0	22	0	32	0	34
Portland, OR	10	0	34	0	27	0	32	0	34
Portland, OR	15	0	37	0	41	0	34	0	34
Portland, OR	20	0	61	0	44	0	55	0	45
Portland, OR	25	0	72	0	54	0	55	0	50
Portland, OR	30	0	73	0	67	0	69	0	62
Portland, OR	35	1	80	0	67	0	74	0	64
Portland, OR	40	2	80	0	71	2	80	1	85
Portland, OR	45	2	80	0	71	2	80	2	85
Portland, OR	50	2	80	0	72	2	80	2	85
Portland, OR	55	2	80	0	72	2	80	2	85
Portland, OR	60	2	80	0	72	2	80	2	85
Portland, OR	100	2	80	0	72	2	80	2	85
Providence, RI	5	0	7	0	14	0	46	0	50
Providence, RI	10	0	17	0	20	0	46	0	50
Providence, RI	15	0	42	0	33	0	46	0	50
Providence, RI	20	0	74	0	41	0	46	0	50
Providence, RI	25	0	74	0	56	0	52	0	50
Providence, RI	30	0	74	0	65	0	59	0	55

Providence, RI	35	0	74	0	70	0	69	0	70
Providence, RI	40	0	74	2	87	0	69	0	71
Providence, RI	45	1	82	4	87	6	87	1	81
Providence, RI	50	7	106	7	87	12	95	8	89
Providence, RI	55	10	106	11	90	16	95	18	100
Providence, RI	60	13	106	12	90	23	112	27	120
Providence, RI	100	18	118	17	126	31	123	33	120
Raleigh, NC	5	0	41	0	21	0	18	0	12
Raleigh, NC	10	0	41	0	28	0	26	0	30
Raleigh, NC	15	0	41	0	35	0	37	0	36
Raleigh, NC	20	0	52	0	49	0	55	0	40
Raleigh, NC	25	0	57	0	58	0	55	0	59
Raleigh, NC	30	0	61	0	71	0	68	0	70
Raleigh, NC	35	0	72	0	72	1	76	1	77
Raleigh, NC	40	1	76	1	87	3	84	1	77
Raleigh, NC	45	5	79	3	87	11	84	3	81
Raleigh, NC	50	12	103	13	95	23	90	10	88
Raleigh, NC	55	26	103	25	95	34	99	19	88
Raleigh, NC	60	34	103	36	98	39	99	29	100
Raleigh, NC	100	53	124	40	114	39	99	44	112
Riverside, CA	10			0	42	0	36		
Riverside, CA	15	0	49	0	54	0	50	0	47
Riverside, CA	20	0	58	0	55	0	61	0	54
Riverside, CA	25	0	64	0	61	0	64	0	64
Riverside, CA	30	1	83	1	77	2	76	0	65
Riverside,	35	10	90	7	86	9	87	1	85

CA									
Riverside, CA	40	22	98	24	105	26	102	18	92
Riverside, CA	45	53	117	55	111	59	102	37	93
Riverside, CA	50	91	125	93	123	86	105	65	123
Riverside, CA	55	119	128	117	124	105	124	102	139
Riverside, CA	60	132	140	129	126	124	138	126	139
Riverside, CA	100	136	142	131	149	133	144	137	139
Rochester, NY	5	0	11	0	17	0	10	0	9
Rochester, NY	10	0	32	0	25	0	30	0	27
Rochester, NY	15	0	33	0	41	0	33	0	28
Rochester, NY	20	0	40	0	51	0	41	0	40
Rochester, NY	25	0	49	0	51	0	65	0	50
Rochester, NY	30	0	57	0	62	0	65	0	53
Rochester, NY	35	0	61	0	62	0	65	0	69
Rochester, NY	40	1	76	0	67	0	68	0	69
Rochester, NY	45	2	82	0	70	0	73	2	80
Rochester, NY	50	5	83	0	70	2	80	2	80
Rochester, NY	55	8	87	0	70	4	82	5	88
Rochester, NY	60	10	89	0	74	8	87	11	98
Rochester, NY	100	17	103	2	92	14	104	22	107

Sacramento, CA	5								
Sacramento, CA	10	0	47	0	48	0	45	0	54
Sacramento, CA	15	0	52	0	50	0	51	0	54
Sacramento, CA	20	0	59	0	57	0	58	0	57
Sacramento, CA	25	0	73	0	68	0	64	0	66
Sacramento, CA	30	2	82	0	68	0	75	1	76
Sacramento, CA	35	7	88	4	92	7	85	3	81
Sacramento, CA	40	33	97	23	94	21	108	20	91
Sacramento, CA	45	59	104	44	113	52	108	47	100
Sacramento, CA	50	71	108	55	113	64	108	70	122
Sacramento, CA	55	77	116	60	113	71	108	80	122
Sacramento, CA	60	77	116	61	113	72	109	85	137
Sacramento, CA	100	80	129	61	113	73	109	86	137
Salt Lake City, UT	5	0	42	0	16	0	37	0	57
Salt Lake City, UT	10	0	42	0	16	0	37	0	57
Salt Lake City, UT	15	0	42	0	47	0	37	0	57
Salt Lake City, UT	20	0	42	0	47	0	59	0	57
Salt Lake City, UT	25	0	54	0	60	0	63	0	57
Salt Lake City, UT	30	0	65	0	66	1	82	0	61
Salt Lake	35	1	77	0	73	2	82	0	68

City, UT									
Salt Lake City, UT	40	3	77	5	81	5	88	1	79
Salt Lake City, UT	45	9	85	13	88	9	88	10	94
Salt Lake City, UT	50	11	85	16	99	14	109	18	96
Salt Lake City, UT	55	12	111	17	99	15	109	19	96
Salt Lake City, UT	60	12	111	19	111	15	109	19	96
Salt Lake City, UT	100	12	111	19	111	15	109	19	96
San Antonio, TX	5			0	18	0	9		
San Antonio, TX	10	0	26	0	27	0	26	0	14
San Antonio, TX	15	0	39	0	41	0	33	0	33
San Antonio, TX	20	0	47	0	54	0	49	0	50
San Antonio, TX	25	0	59	0	61	0	59	0	54
San Antonio, TX	30	0	70	0	67	0	70	0	65
San Antonio, TX	35	1	76	1	76	0	70	1	78
San Antonio, TX	40	5	87	3	80	1	79	3	87
San Antonio, TX	45	9	100	7	87	6	81	12	100
San Antonio, TX	50	17	100	11	93	9	90	16	111
San Antonio, TX	55	22	100	13	93	9	90	20	111
San Antonio, TX	60	26	100	15	93	9	90	22	111
San Antonio, TX	100	26	100	15	93	9	90	27	111

San Diego, CA	5	0		0	38				
San Diego, CA	10	0	52	0	48	0	44	0	40
San Diego, CA	15	0	54	0	53	0	57	0	50
San Diego, CA	20	0	63	0	71	0	61	0	51
San Diego, CA	25	2	83	3	85	0	67	0	63
San Diego, CA	30	11	86	12	89	5	85	1	78
San Diego, CA	35	20	93	23	97	13	86	6	91
San Diego, CA	40	36	93	35	106	28	116	18	96
San Diego, CA	45	40	100	45	106	33	116	28	100
San Diego, CA	50	43	100	46	106	41	116	31	100
San Diego, CA	55	43	100	46	106	42	116	31	100
San Diego, CA	60	44	100	46	106	43	116	31	100
San Diego, CA	100	44	100	46	106	43	116	31	100
San Jose, CA	5								
San Jose, CA	10	0	34	0	41	0	35	0	43
San Jose, CA	15	0	70	0	48	0	52	0	53
San Jose, CA	20	0	70	0	69	0	69	0	71
San Jose, CA	25	1	76	0	73	1	77	0	75
San Jose, CA	30	5	79	2	82	1	77	6	83
San Jose,	35	11	85	7	84	4	79	14	83

CA									
San Jose, CA	40	17	87	7	84	8	94	17	88
San Jose, CA	45	18	102	9	101	9	96	20	96
San Jose, CA	50	18	102	9	101	10	96	24	99
San Jose, CA	55	18	102	9	101	10	96	24	99
San Jose, CA	60	18	102	9	101	10	96	24	99
San Jose, CA	100	18	102	9	101	10	96	24	99
Seattle, WA	5							0	7
Seattle, WA	10			0	34	0	30	0	22
Seattle, WA	15	0	56	0	45	0	54	0	47
Seattle, WA	20	0	65	0	52	0	58	0	57
Seattle, WA	25	0	65	0	60	0	62	0	62
Seattle, WA	30	0	65	0	61	0	65	0	67
Seattle, WA	35	0	74	0	70	0	72	1	83
Seattle, WA	40	0	75	2	86	2	90	3	83
Seattle, WA	45	1	91	2	86	2	90	3	83
Seattle, WA	50	1	91	3	86	2	90	3	83
Seattle, WA	55	1	91	3	86	2	90	3	83
Seattle, WA	60	1	91	3	86	2	90	3	83
Seattle, WA	100	1	91	3	86	2	90	3	83
Shreveport, LA	5							0	14
Shreveport, LA	10	0	28	0	24	0	24	0	31
Shreveport, LA	15	0	31	0	33	0	38	0	42
Shreveport, LA	20	0	46	0	46	0	47	0	43
Shreveport, LA	25	0	63	0	56	0	62	0	52
Shreveport, LA	30	0	69	0	68	0	72	0	60

Shreveport, LA	35	1	76	0	74	0	72	0	68
Shreveport, LA	40	5	83	3	89	1	80	0	69
Shreveport, LA	45	16	99	16	93	9	92	2	80
Shreveport, LA	50	25	99	20	93	14	92	3	80
Shreveport, LA	55	31	99	26	93	16	92	4	80
Shreveport, LA	60	32	99	26	93	16	92	5	80
Shreveport, LA	100	33	99	28	106	16	92	5	80
Spokane, WA	5	0	36	0	30	0		0	41
Spokane, WA	10	0	36	0	30	0		0	41
Spokane, WA	15	0	36	0	30	0		0	41
Spokane, WA	20	0	36	0	36	0		0	41
Spokane, WA	25	0	43	0	39	0	34	0	41
Spokane, WA	30	0	51	0	49	0	46	0	46
Spokane, WA	35	0	58	0	53	0	54	0	55
Spokane, WA	40	0	66	0	63	0	62	0	61
Spokane, WA	45	0	68	0	68	0	68	0	74
Spokane, WA	50	0	68	0	75	0	71	0	75
Spokane, WA	55	0	68	0	75	1	79	0	75
Spokane, WA	60	0	68	0	75	1	79	0	75
Spokane,	100	0	68	0	75	1	79	0	75

WA									
St Louis, MO	5	0	30	0	22	0	23	0	14
St Louis, MO	10	0	30	0	34	0	29	0	38
St Louis, MO	15	0	43	0	50	0	45	0	44
St Louis, MO	20	0	50	0	52	0	50	0	50
St Louis, MO	25	0	61	0	60	0	64	0	60
St Louis, MO	30	0	67	1	76	0	73	1	76
St Louis, MO	35	5	102	4	80	7	86	7	92
St Louis, MO	40	19	104	8	89	16	92	21	92
St Louis, MO	45	29	108	15	96	27	92	28	104
St Louis, MO	50	41	110	24	99	32	99	38	114
St Louis, MO	55	48	110	26	99	32	99	44	119
St Louis, MO	60	49	129	27	99	32	99	49	119
St Louis, MO	100	49	129	27	99	32	99	49	119
Stockton, CA	5	0	23	0	15	0	37	0	15
Stockton, CA	10	0	33	0	34	0	37	0	33
Stockton, CA	15	0	47	0	38	0	41	0	41
Stockton, CA	20	0	64	0	51	0	45	0	42
Stockton, CA	25	0	65	0	54	0	60	0	55
Stockton, CA	30	0	72	0	65	0	67	0	71

Stockton, CA	35	4	84	0	73	0	73	0	75
Stockton, CA	40	12	89	5	84	6	78	3	84
Stockton, CA	45	17	93	9	94	11	84	10	88
Stockton, CA	50	19	100	10	94	13	92	14	96
Stockton, CA	55	19	100	10	94	13	92	14	96
Stockton, CA	60	20	108	10	94	13	92	14	96
Stockton, CA	100	21	113	10	94	13	92	14	96
Syracuse, NY	5	0						0	20
Syracuse, NY	10	0	30	0	30	0	22	0	24
Syracuse, NY	15	0	43	0	36	0	34	0	35
Syracuse, NY	20	0	43	0	53	0	47	0	47
Syracuse, NY	25	0	48	0	53	0	50	0	54
Syracuse, NY	30	0	60	0	58	0	62	0	54
Syracuse, NY	35	0	63	0	61	0	69	0	70
Syracuse, NY	40	0	72	0	74	0	75	0	74
Syracuse, NY	45	0	73	0	74	3	79	2	82
Syracuse, NY	50	2	86	1	77	4	85	4	83
Syracuse, NY	55	5	89	1	77	8	87	13	98
Syracuse, NY	60	8	89	1	77	11	98	15	98
Syracuse,	100	12	98	2	97	13	98	18	98

NY									
Tampa, FL	5	0	18						
Tampa, FL	10	0	24	0	28	0	16	0	21
Tampa, FL	15	0	44	0	37	0	50	0	47
Tampa, FL	20	0	56	0	60	0	53	0	53
Tampa, FL	25	0	62	0	60	0	71	0	59
Tampa, FL	30	1	76	0	68	0	71	0	67
Tampa, FL	35	1	76	2	79	2	84	2	79
Tampa, FL	40	4	86	7	91	6	84	3	79
Tampa, FL	45	14	96	15	91	12	97	4	83
Tampa, FL	50	18	96	21	91	16	97	5	83
Tampa, FL	55	23	104	27	91	17	97	5	83
Tampa, FL	60	25	104	28	91	19	105	6	83
Tampa, FL	100	26	104	31	91	20	105	6	83
Toledo, OH	5	0	32	0	12	0	41	0	27
Toledo, OH	10	0	42	0	26	0	41	0	28
Toledo, OH	15	0	42	0	37	0	41	0	33
Toledo, OH	20	0	54	0	51	0	47	0	44
Toledo, OH	25	0	68	0	51	0	60	0	52
Toledo, OH	30	2	92	0	66	0	67	0	62
Toledo, OH	35	3	92	0	66	0	73	0	71
Toledo, OH	40	10	92	1	84	2	79	2	81
Toledo, OH	45	15	92	3	84	9	83	7	82
Toledo, OH	50	18	92	4	84	15	91	14	99
Toledo, OH	55	21	92	5	85	19	101	22	103
Toledo, OH	60	24	112	5	85	23	101	27	108
Toledo, OH	100	25	112	7	88	23	101	28	108
Tucson, AZ	10	0	29	0	35	0	27	0	30
Tucson, AZ	15	0	36	0	41	0	40	0	38
Tucson, AZ	20	0	45	0	44	0	44	0	44
Tucson, AZ	25	0	55	0	53	0	49	0	49
Tucson, AZ	30	0	63	0	60	0	57	0	56
Tucson, AZ	35	0	67	0	67	0	62	0	66
Tucson, AZ	40	0	71	0	70	0	69	0	70
Tucson, AZ	45	0	72	1	79	0	71	0	72

Tucson, AZ	50	1	82	5	81	0	75	2	77
Tucson, AZ	55	2	85	7	81	0	75	3	79
Tucson, AZ	60	2	85	9	81	0	75	5	90
Tucson, AZ	100	2	85	9	81	0	75	5	90
Tulsa, OK	5			0	11	0	6	0	5
Tulsa, OK	10	0	27	0	25	0	29	0	23
Tulsa, OK	15	0	39	0	38	0	36	0	36
Tulsa, OK	20	0	53	0	48	0	50	0	47
Tulsa, OK	25	0	66	0	59	0	58	0	58
Tulsa, OK	30	0	66	0	67	0	74	0	64
Tulsa, OK	35	1	82	0	74	0	74	2	83
Tulsa, OK	40	2	86	3	97	3	80	5	83
Tulsa, OK	45	6	98	10	97	9	97	15	88
Tulsa, OK	50	15	103	18	106	17	97	21	95
Tulsa, OK	55	21	103	20	106	25	110	24	99
Tulsa, OK	60	23	103	21	123	27	110	24	99
Tulsa, OK	100	25	103	23	123	27	110	24	99
Washington, DC	5	0	23	0	25	0	18	0	16
Washington, DC	10	0	44	0	48	0	36	0	31
Washington, DC	15	0	46	0	51	0	49	0	51
Washington, DC	20	0	49	0	72	0	55	0	51
Washington, DC	25	1	81	0	72	0	66	0	69
Washington, DC	30	1	81	0	75	1	77	2	119
Washington, DC	35	5	85	5	88	5	81	5	119
Washington, DC	40	21	92	10	88	19	93	13	119
Washington, DC	45	35	96	22	112	23	93	18	119
Washington, DC	50	43	106	23	112	38	108	37	119

Washington, DC	55	61	124	27	112	42	108	48	120
Washington, DC	60	63	124	28	112	43	111	53	133
Washington, DC	100	66	124	30	117	43	111	57	133
Wichita, KS	5	0	8			0	5	0	7
Wichita, KS	10	0	29	0	26	0	29	0	30
Wichita, KS	15	0	37	0	36	0	34	0	34
Wichita, KS	20	0	49	0	40	0	47	0	47
Wichita, KS	25	0	62	0	56	0	55	0	56
Wichita, KS	30	0	68	0	63	0	67	0	58
Wichita, KS	35	0	68	0	70	0	68	0	61
Wichita, KS	40	0	70	0	70	1	76	1	77
Wichita, KS	45	1	77	1	79	3	80	1	77
Wichita, KS	50	1	77	5	97	4	80	1	77
Wichita, KS	55	5	92	7	97	8	84	5	89
Wichita, KS	60	11	92	11	97	16	90	10	89
Wichita, KS	100	11	92	14	97	21	97	12	89
Worcester, MA	5	0		0	30	0	13	0	
Worcester, MA	10	0	30	0	30	0	26	0	15
Worcester, MA	15	0	40	0	30	0	32	0	29
Worcester, MA	20	0	40	0	37	0	41	0	40
Worcester, MA	25	0	48	0	47	0	41	0	40
Worcester, MA	30	0	48	0	51	0	46	0	47
Worcester, MA	35	0	54	0	62	0	49	0	53
Worcester, MA	40	0	63	0	62	0	59	0	58
Worcester, MA	45	0	67	0	62	0	67	0	64
Worcester,	50	0	74	0	74	0	67	1	76

MA									
Worcester, MA	55	0	74	2	77	0	75	2	79
Worcester, MA	60	5	86	2	77	1	83	5	89
Worcester, MA	100	14	101	4	95	9	102	14	118

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations (Continued)

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 2003	Highest 8-hour conc. (ppb) 2003	Number of exceedances of 75 ppb 2004	Highest 8-hour conc. (ppb) 2004	Number of exceedances of 75 ppb 2005	Highest 8-hour conc. (ppb) 2005	Number of exceedances of 75 ppb 2006	Highest 8-hour conc. (ppb) 2006
Akron, OH	5	0	37	0	22	0	33	0	33
Akron, OH	10	0	37	0	31	0	33	0	33
Akron, OH	15	0	40	0	40	0	35	0	33
Akron, OH	20	0	48	0	51	0	42	0	46
Akron, OH	25	0	56	0	56	0	60	0	55
Akron, OH	30	0	64	0	73	0	72	0	66
Akron, OH	35	2	80	1	78	2	78	0	73
Akron, OH	40	4	84	2	78	3	80	2	80
Akron, OH	45	5	84	3	81	8	86	3	82
Akron, OH	50	10	91	5	87	19	88	4	82
Akron, OH	55	11	91	7	87	25	93	5	82
Akron, OH	60	11	91	8	87	27	93	5	82
Akron, OH	100	15	123	8	87	28	107	5	82
Albuquerque, NM	10	0	39	0	35	0	32	0	28
Albuquerque, NM	15	0	45	0	38	0	42	0	41
Albuquerque, NM	20	0	45	0	47	0	46	0	45
Albuquerque, NM	25	0	55	0	52	0	56	0	53
Albuquerque, NM	30	0	64	0	73	0	58	0	58
Albuquerque, NM	35	0	67	0	73	0	62	0	71
Albuquerque, NM	40	1	78	0	73	0	69	0	75
Albuquerque, NM	45	2	78	0	74	1	76	1	79
Albuquerque, NM	50	7	85	2	77	8	84	3	79
Albuquerqu	55	11	85	3	77	10	84	5	80

e, NM									
Albuquerque, NM	60	15	91	3	77	10	84	5	80
Albuquerque, NM	100	15	91	3	77	10	84	5	80
Atlanta, GA	5	0	18	0	39	0	34	0	46
Atlanta, GA	10	0	25	0	39	0	34	0	46
Atlanta, GA	15	0	46	0	44	0	46	0	46
Atlanta, GA	20	0	53	0	55	0	52	0	59
Atlanta, GA	25	0	73	0	67	0	74	0	66
Atlanta, GA	30	2	78	1	77	2	78	1	82
Atlanta, GA	35	11	88	7	83	14	89	4	82
Atlanta, GA	40	23	99	17	96	32	91	18	93
Atlanta, GA	45	31	108	27	102	46	114	37	108
Atlanta, GA	50	33	108	29	112	50	114	55	121
Atlanta, GA	55	34	108	29	112	51	114	58	121
Atlanta, GA	60	34	108	29	112	51	114	58	121
Atlanta, GA	100	34	108	29	112	51	114	58	121
Austin, TX	5	0	9			0	3	0	14
Austin, TX	10	0	31	0	35	0	23	0	21
Austin, TX	15	0	31	0	35	0	31	0	26
Austin, TX	20	0	43	0	44	0	43	0	36
Austin, TX	25	0	47	0	48	0	51	0	47
Austin, TX	30	0	53	0	54	0	65	0	60
Austin, TX	35	0	65	0	60	0	74	0	65
Austin, TX	40	0	72	0	69	0	74	0	74
Austin, TX	45	0	74	2	86	3	82	1	81
Austin, TX	50	6	84	4	92	6	82	6	88
Austin, TX	55	9	85	9	92	11	88	14	89
Austin, TX	60	12	92	10	92	11	88	15	91
Austin, TX	100	14	96	10	92	11	88	16	91
Bakersfield, CA	5					0	36		
Bakersfield, CA	10	0	52	0	42	0	39	0	39
Bakersfield,	15	0	52	0	42	0	41	0	45

CA									
Bakersfield, CA	20	0	52	0	51	0	46	0	48
Bakersfield, CA	25	0	52	0	52	0	65	0	58
Bakersfield, CA	30	0	71	0	60	0	65	0	66
Bakersfield, CA	35	0	71	0	72	0	71	0	69
Bakersfield, CA	40	4	82	3	83	0	71	0	73
Bakersfield, CA	45	20	95	17	86	10	86	9	81
Bakersfield, CA	50	55	102	57	97	37	102	34	96
Bakersfield, CA	55	98	119	98	104	64	105	69	103
Bakersfield, CA	60	120	119	126	116	80	105	90	108
Bakersfield, CA	100	144	127	134	126	94	113	110	121
Baltimore, MD	5	0	18	0	9	0	27	0	24
Baltimore, MD	10	0	37	0	26	0	27	0	34
Baltimore, MD	15	0	42	0	39	0	40	0	37
Baltimore, MD	20	0	54	0	50	0	40	0	53
Baltimore, MD	25	0	57	0	60	0	51	0	54
Baltimore, MD	30	0	71	0	66	0	64	0	59
Baltimore, MD	35	0	75	0	75	1	76	0	65
Baltimore, MD	40	5	92	5	88	8	93	3	79
Baltimore, MD	45	11	92	13	88	19	97	10	90

Baltimore, MD	50	18	92	22	103	28	108	21	95
Baltimore, MD	55	20	96	27	107	33	113	27	110
Baltimore, MD	60	21	96	27	107	34	113	31	110
Baltimore, MD	100	23	130	27	107	34	113	31	110
Baton Rouge, LA	5								
Baton Rouge, LA	10	0	35	0	32	0	32	0	24
Baton Rouge, LA	15	0	52	0	49	0	42	0	43
Baton Rouge, LA	20	0	57	0	58	0	58	0	59
Baton Rouge, LA	25	0	75	2	79	0	68	0	69
Baton Rouge, LA	30	0	75	4	85	4	101	2	93
Baton Rouge, LA	35	6	105	8	97	17	105	9	93
Baton Rouge, LA	40	16	112	18	98	35	105	19	101
Baton Rouge, LA	45	23	119	24	100	44	105	30	101
Baton Rouge, LA	50	29	119	28	110	48	105	34	101
Baton Rouge, LA	55	30	119	28	110	50	106	38	101
Baton Rouge, LA	60	31	119	28	110	51	106	40	103
Baton Rouge, LA	100	31	119	28	110	51	106	40	103
Biddeford, ME	5	0	16	0	24	0	28	0	21
Biddeford, ME	10	0	39	0	38	0	28	0	27
Biddeford,	15	0	39	0	38	0	31	0	35

ME									
Biddeford, ME	20	0	45	0	39	0	43	0	45
Biddeford, ME	25	0	54	0	50	0	54	0	50
Biddeford, ME	30	0	61	0	68	0	63	0	69
Biddeford, ME	35	0	73	0	71	0	72	0	69
Biddeford, ME	40	1	83	1	81	2	76	1	79
Biddeford, ME	45	2	83	3	100	3	79	2	79
Biddeford, ME	50	4	93	6	100	7	89	3	82
Biddeford, ME	55	8	93	8	100	8	89	4	82
Biddeford, ME	60	8	93	8	100	8	89	4	82
Biddeford, ME	100	8	93	8	100	9	89	4	82
Birmingham, AL	5	0	12	0	14	0	11	0	8
Birmingham, AL	10	0	36	0	27	0	29	0	26
Birmingham, AL	15	0	39	0	43	0	42	0	41
Birmingham, AL	20	0	57	0	48	0	55	0	50
Birmingham, AL	25	0	64	0	64	0	65	0	61
Birmingham, AL	30	0	72	0	74	1	79	0	69
Birmingham, AL	35	6	87	6	88	5	88	2	81
Birmingham, AL	40	13	87	10	97	18	96	10	91
Birmingham, AL	45	17	96	10	97	25	97	18	100

Birmingham, AL	50	17	96	10	97	25	97	27	109
Birmingham, AL	55	17	96	10	97	25	97	27	109
Birmingham, AL	60	17	96	10	97	25	97	28	109
Birmingham, AL	100	17	96	10	97	25	97	28	109
Boston, MA	5	0	31	0	18	0	25	0	23
Boston, MA	10	0	40	0	31	0	35	0	33
Boston, MA	15	0	40	0	39	0	43	0	38
Boston, MA	20	0	46	0	55	0	48	0	48
Boston, MA	25	0	54	0	55	0	59	0	53
Boston, MA	30	1	77	0	65	0	63	0	56
Boston, MA	35	1	77	0	68	1	76	0	68
Boston, MA	40	1	77	2	95	4	95	0	69
Boston, MA	45	3	80	3	98	10	95	1	77
Boston, MA	50	7	92	5	100	16	95	5	79
Boston, MA	55	8	92	7	100	18	95	9	87
Boston, MA	60	11	109	8	100	19	95	10	87
Boston, MA	100	11	109	8	100	22	103	12	89
Buffalo, NY	5	0	18	0	21	0	18	0	9
Buffalo, NY	10	0	33	0	27	0	27	0	26
Buffalo, NY	15	0	34	0	37	0	31	0	40
Buffalo, NY	20	0	44	0	45	0	40	0	42
Buffalo, NY	25	0	58	0	56	0	53	0	45
Buffalo, NY	30	0	63	0	62	0	53	0	61
Buffalo, NY	35	0	63	0	63	0	64	0	68
Buffalo, NY	40	0	66	0	75	0	70	0	68
Buffalo, NY	45	1	78	2	82	1	77	0	75
Buffalo, NY	50	3	78	4	82	5	98	0	75
Buffalo, NY	55	3	78	5	82	11	98	3	86
Buffalo, NY	60	4	78	7	82	13	98	4	86
Buffalo, NY	100	12	110	8	82	22	103	6	86
Cedar Rapids, IA	5	0	25	0	20	0	25	0	23

Cedar Rapids, IA	10	0	25	0	20	0	25	0	23
Cedar Rapids, IA	15	0	26	0	22	0	28	0	29
Cedar Rapids, IA	20	0	40	0	48	0	34	0	34
Cedar Rapids, IA	25	0	47	0	48	0	46	0	47
Cedar Rapids, IA	30	0	56	0	54	0	52	0	52
Cedar Rapids, IA	35	0	61	0	63	0	61	0	60
Cedar Rapids, IA	40	0	66	0	64	0	64	0	65
Cedar Rapids, IA	45	0	68	0	69	0	70	0	67
Cedar Rapids, IA	50	0	70	0	69	0	73	0	68
Cedar Rapids, IA	55	0	70	0	69	1	79	0	68
Cedar Rapids, IA	60	1	76	0	69	1	79	0	68
Cedar Rapids, IA	100	1	76	0	69	1	79	0	68
Charlotte, NC	5	0		0		0	7	0	10
Charlotte, NC	10	0	29	0	27	0	18	0	29
Charlotte, NC	15	0	38	0	37	0	36	0	38
Charlotte, NC	20	0	51	0	50	0	54	0	48
Charlotte, NC	25	0	54	0	61	0	59	0	59
Charlotte, NC	30	1	76	0	68	2	77	0	73
Charlotte, NC	35	1	76	1	77	9	84	1	83
Charlotte,	40	6	96	9	83	17	93	6	90

NC									
Charlotte, NC	45	10	96	15	93	21	93	18	96
Charlotte, NC	50	13	99	18	107	28	101	21	103
Charlotte, NC	55	15	114	19	107	30	111	24	103
Charlotte, NC	60	16	114	20	107	31	111	24	103
Charlotte, NC	100	16	114	20	107	31	111	24	103
Chicago, IL	5	0	22	0	27	0	28	0	22
Chicago, IL	10	0	37	0	32	0	31	0	32
Chicago, IL	15	0	47	0	43	0	44	0	40
Chicago, IL	20	0	59	0	52	0	50	0	58
Chicago, IL	25	0	67	0	65	0	58	0	61
Chicago, IL	30	0	73	0	68	0	64	0	68
Chicago, IL	35	0	75	3	79	2	79	1	91
Chicago, IL	40	5	87	8	97	9	91	6	91
Chicago, IL	45	15	90	9	97	18	100	7	91
Chicago, IL	50	21	101	9	97	25	113	9	91
Chicago, IL	55	22	101	9	97	29	113	10	91
Chicago, IL	60	23	101	9	97	33	113	11	91
Chicago, IL	100	23	101	9	97	33	113	11	91
Cincinnati, OH	5	0	8	0	43	0	34	0	19
Cincinnati, OH	10	0	35	0	43	0	36	0	19
Cincinnati, OH	15	0	40	0	43	0	43	0	42
Cincinnati, OH	20	0	52	0	54	0	46	0	43
Cincinnati, OH	25	0	62	0	67	0	62	0	60
Cincinnati, OH	30	0	71	1	76	0	71	0	75
Cincinnati, OH	35	3	86	6	87	4	85	4	90

Cincinnati, OH	40	9	94	11	87	14	113	13	90
Cincinnati, OH	45	15	103	16	90	27	113	20	98
Cincinnati, OH	50	21	121	17	90	41	113	22	98
Cincinnati, OH	55	24	121	17	90	43	113	24	98
Cincinnati, OH	60	24	121	17	90	43	113	24	98
Cincinnati, OH	100	24	121	17	90	43	113	24	98
Cleveland, OH	5	0	39	0	26	0	34	0	33
Cleveland, OH	10	0	39	0	26	0	35	0	33
Cleveland, OH	15	0	43	0	38	0	40	0	36
Cleveland, OH	20	0	50	0	45	0	55	0	47
Cleveland, OH	25	0	60	0	52	0	55	0	54
Cleveland, OH	30	0	61	1	76	0	68	0	62
Cleveland, OH	35	1	84	1	76	1	79	0	72
Cleveland, OH	40	1	84	4	87	6	80	2	77
Cleveland, OH	45	7	93	6	87	14	91	7	83
Cleveland, OH	50	10	95	10	87	24	95	12	90
Cleveland, OH	55	12	95	11	87	31	101	14	90
Cleveland, OH	60	13	97	11	87	33	104	14	90
Cleveland, OH	100	16	120	11	87	36	118	15	90

Colorado Springs, CO	5	0	36	0	10	0	15		
Colorado Springs, CO	10	0	38	0	41	0	15	0	43
Colorado Springs, CO	15	0	45	0	41	0	37	0	43
Colorado Springs, CO	20	0	45	0	49	0	45	0	48
Colorado Springs, CO	25	0	53	0	51	0	48	0	48
Colorado Springs, CO	30	0	58	0	54	0	54	0	51
Colorado Springs, CO	35	0	67	0	61	0	57	0	59
Colorado Springs, CO	40	1	80	0	65	0	66	0	63
Colorado Springs, CO	45	1	80	0	72	0	71	0	69
Colorado Springs, CO	50	2	80	0	72	0	72	1	79
Colorado Springs, CO	55	3	84	0	72	3	81	1	79
Colorado Springs, CO	60	4	84	0	72	5	86	5	79
Colorado Springs, CO	100	4	84	0	72	6	86	5	79
Columbus, GA	5	0	10	0	36	0	25	0	31
Columbus, GA	10	0	21	0	36	0	25	0	31
Columbus, GA	15	0	37	0	36	0	30	0	36
Columbus, GA	20	0	51	0	51	0	49	0	45
Columbus, GA	25	0	60	0	56	1	82	0	54

Columbus, GA	30	0	66	0	63	1	82	0	62
Columbus, GA	35	0	70	0	68	1	82	0	71
Columbus, GA	40	0	73	1	83	4	85	0	73
Columbus, GA	45	2	83	1	83	6	88	1	80
Columbus, GA	50	2	83	2	83	6	88	3	87
Columbus, GA	55	2	83	2	83	6	88	4	87
Columbus, GA	60	2	83	2	83	6	88	5	87
Columbus, GA	100	2	83	2	83	6	88	5	87
Columbus, OH	5	0	45	0	24	0	30	0	37
Columbus, OH	10	0	45	0	30	0	30	0	37
Columbus, OH	15	0	45	0	44	0	43	0	37
Columbus, OH	20	0	48	0	44	0	45	0	46
Columbus, OH	25	0	55	0	53	0	47	0	53
Columbus, OH	30	0	66	0	67	0	64	0	67
Columbus, OH	35	0	73	0	68	0	74	0	71
Columbus, OH	40	2	83	3	86	5	84	3	82
Columbus, OH	45	6	83	9	86	14	92	4	82
Columbus, OH	50	17	95	11	86	23	92	7	85
Columbus, OH	55	18	95	11	86	29	106	9	87
Columbus,	60	18	95	11	86	30	106	11	87

OH									
Columbus, OH	100	20	129	11	86	30	106	11	87
Corpus Christi, TX	5	0	11			0	4	0	
Corpus Christi, TX	10	0	25	0	19	0	20	0	24
Corpus Christi, TX	15	0	30	0	31	0	35	0	32
Corpus Christi, TX	20	0	54	0	57	0	44	0	39
Corpus Christi, TX	25	0	54	0	57	0	48	0	50
Corpus Christi, TX	30	0	66	0	58	0	61	0	52
Corpus Christi, TX	35	0	66	0	60	0	61	0	71
Corpus Christi, TX	40	0	70	0	72	0	68	0	71
Corpus Christi, TX	45	1	87	2	79	0	71	0	75
Corpus Christi, TX	50	5	87	3	79	0	71	0	75
Corpus Christi, TX	55	7	87	5	93	0	71	2	84
Corpus Christi, TX	60	11	93	5	93	0	71	2	84
Corpus Christi, TX	100	11	93	5	93	0	71	2	84
Dallas/Ft Worth, TX	5	0	20	0	11	0	12	0	23
Dallas/Ft Worth, TX	10	0	33	0	31	0	30	0	23
Dallas/Ft Worth, TX	15	0	39	0	45	0	40	0	44
Dallas/Ft Worth, TX	20	0	48	0	47	0	49	0	47
Dallas/Ft Worth, TX	25	0	56	0	53	0	55	0	63

Dallas/Ft Worth, TX	30	0	74	0	69	0	63	0	67
Dallas/Ft Worth, TX	35	2	81	3	96	2	82	0	69
Dallas/Ft Worth, TX	40	9	94	16	96	6	100	3	82
Dallas/Ft Worth, TX	45	23	97	27	100	23	103	9	84
Dallas/Ft Worth, TX	50	34	104	39	108	46	115	21	103
Dallas/Ft Worth, TX	55	41	104	46	108	66	115	37	103
Dallas/Ft Worth, TX	60	43	104	47	108	70	117	47	107
Dallas/Ft Worth, TX	100	45	130	48	108	70	117	49	107
Dayton, OH	5	0	43	0	34	0	22	0	32
Dayton, OH	10	0	43	0	34	0	29	0	32
Dayton, OH	15	0	43	0	40	0	32	0	34
Dayton, OH	20	0	46	0	46	0	46	0	42
Dayton, OH	25	0	60	0	52	0	57	0	57
Dayton, OH	30	0	62	0	71	0	66	0	67
Dayton, OH	35	0	73	0	75	0	75	1	81
Dayton, OH	40	2	94	1	81	3	78	3	85
Dayton, OH	45	5	94	2	81	10	83	3	85
Dayton, OH	50	10	94	3	84	15	89	4	85
Dayton, OH	55	11	94	3	84	18	95	4	85
Dayton, OH	60	12	121	3	84	19	95	5	88
Dayton, OH	100	13	121	3	84	19	95	5	88
Denver, CO	5	0	29	0	25	0	27	0	25
Denver, CO	10	0	45	0	34	0	47	0	39
Denver, CO	15	0	45	0	46	0	47	0	51
Denver, CO	20	0	48	0	50	0	52	0	51
Denver, CO	25	0	53	0	53	0	52	0	52
Denver, CO	30	0	66	0	65	0	71	0	62
Denver, CO	35	0	71	0	68	0	71	0	67
Denver, CO	40	1	77	0	73	0	74	0	74

Denver, CO	45	9	86	4	79	4	81	3	82
Denver, CO	50	21	95	8	81	14	86	16	94
Denver, CO	55	28	95	8	81	17	91	28	96
Denver, CO	60	31	115	8	81	17	91	28	96
Denver, CO	100	32	119	8	81	17	91	28	96
Des Moines, IA	5	0	13	0	10	0	19	0	29
Des Moines, IA	10	0	24	0	19	0	21	0	29
Des Moines, IA	15	0	35	0	35	0	37	0	29
Des Moines, IA	20	0	39	0	46	0	52	0	42
Des Moines, IA	25	0	49	0	48	0	52	0	50
Des Moines, IA	30	0	59	0	61	0	58	0	63
Des Moines, IA	35	0	73	0	61	0	58	0	63
Des Moines, IA	40	0	73	0	61	0	71	0	72
Des Moines, IA	45	0	73	0	64	1	79	0	72
Des Moines, IA	50	0	73	0	64	2	79	0	72
Des Moines, IA	55	0	73	0	64	2	79	0	72
Des Moines, IA	60	0	73	0	64	2	79	0	72
Des Moines, IA	100	0	73	0	64	2	79	0	72
Detroit, MI	5	0	36	0	36	0	36	0	21
Detroit, MI	10	0	36	0	36	0	36	0	27
Detroit, MI	15	0	36	0	40	0	36	0	31
Detroit, MI	20	0	46	0	54	0	46	0	45
Detroit, MI	25	0	66	0	56	0	58	0	53
Detroit, MI	30	0	70	1	81	0	73	0	69
Detroit, MI	35	1	78	1	81	1	79	1	78

Detroit, MI	40	4	80	5	83	6	83	1	78
Detroit, MI	45	7	90	5	83	19	90	6	84
Detroit, MI	50	10	115	6	83	22	90	6	84
Detroit, MI	55	12	115	6	83	26	103	6	84
Detroit, MI	60	13	115	6	83	27	107	6	84
Detroit, MI	100	14	123	6	83	27	107	7	91
El Paso, TX	5			0	16	0	17		
El Paso, TX	10	0	30	0	40	0	33	0	32
El Paso, TX	15	0	41	0	40	0	45	0	46
El Paso, TX	20	0	49	0	52	0	51	0	57
El Paso, TX	25	0	65	0	63	0	64	0	61
El Paso, TX	30	0	73	0	70	1	77	0	69
El Paso, TX	35	2	78	0	74	2	81	0	73
El Paso, TX	40	3	81	0	74	8	84	1	85
El Paso, TX	45	5	86	4	84	13	99	3	85
El Paso, TX	50	7	86	7	84	16	99	7	92
El Paso, TX	55	7	86	7	84	16	99	9	92
El Paso, TX	60	7	86	7	84	16	99	10	92
El Paso, TX	100	7	86	7	84	16	99	10	92
Evansville, IN	5	0		0	39	0	34	0	29
Evansville, IN	10	0	18	0	39	0	34	0	29
Evansville, IN	15	0	36	0	39	0	42	0	31
Evansville, IN	20	0	45	0	47	0	47	0	44
Evansville, IN	25	0	56	0	55	0	55	0	56
Evansville, IN	30	0	62	0	66	0	70	0	70
Evansville, IN	35	0	72	0	70	1	81	0	75
Evansville, IN	40	4	77	2	84	5	84	2	83
Evansville, IN	45	7	80	3	84	20	96	3	88

Evansville, IN	50	12	90	4	84	23	96	8	95
Evansville, IN	55	14	101	5	84	23	96	8	95
Evansville, IN	60	14	101	5	84	23	96	8	95
Evansville, IN	100	14	101	5	84	24	96	8	95
Fresno, CA	5	0	12	0	15	0	14	0	20
Fresno, CA	10	0	34	0	26	0	28	0	30
Fresno, CA	15	0	45	0	35	0	43	0	44
Fresno, CA	20	0	59	0	44	0	51	0	53
Fresno, CA	25	0	59	0	56	0	60	0	58
Fresno, CA	30	1	80	0	66	0	66	0	63
Fresno, CA	35	7	89	0	73	0	73	0	70
Fresno, CA	40	21	95	2	78	7	88	3	83
Fresno, CA	45	41	96	14	84	22	88	17	90
Fresno, CA	50	74	103	38	97	44	97	44	98
Fresno, CA	55	110	107	58	97	58	102	64	99
Fresno, CA	60	129	112	61	103	60	103	70	104
Fresno, CA	100	138	116	61	103	62	111	74	113
Ft. Wayne, IN	5	0	39	0	26	0	4	0	17
Ft. Wayne, IN	10	0	39	0	26	0	4	0	17
Ft. Wayne, IN	15	0	39	0	30	0	31	0	30
Ft. Wayne, IN	20	0	42	0	48	0	37	0	44
Ft. Wayne, IN	25	0	53	0	53	0	54	0	53
Ft. Wayne, IN	30	0	65	0	69	0	57	0	58
Ft. Wayne, IN	35	1	79	1	80	0	71	0	65
Ft. Wayne, IN	40	1	79	2	84	1	87	0	67
Ft. Wayne,	45	3	79	2	84	4	87	0	73

IN									
Ft. Wayne, IN	50	5	90	2	84	9	87	1	78
Ft. Wayne, IN	55	7	92	2	84	19	87	2	78
Ft. Wayne, IN	60	7	92	2	84	21	91	2	78
Ft. Wayne, IN	100	9	104	2	84	22	91	3	78
Grand Rapids, MI	5	0	23	0	26	0	31	0	17
Grand Rapids, MI	10	0	23	0	26	0	31	0	22
Grand Rapids, MI	15	0	33	0	30	0	31	0	30
Grand Rapids, MI	20	0	40	0	43	0	37	0	37
Grand Rapids, MI	25	0	50	0	48	0	46	0	47
Grand Rapids, MI	30	0	60	0	67	0	59	0	56
Grand Rapids, MI	35	0	67	1	82	0	62	0	60
Grand Rapids, MI	40	0	73	2	82	0	75	0	68
Grand Rapids, MI	45	0	73	2	82	3	83	0	73
Grand Rapids, MI	50	4	86	2	82	7	84	0	73
Grand Rapids, MI	55	7	94	2	82	14	86	2	82
Grand Rapids, MI	60	7	94	2	82	15	86	4	90
Grand Rapids, MI	100	10	106	2	82	17	94	7	104
Greensboro, NC	5	0	28	0	12	0	11	0	46
Greensboro, NC	10	0	28	0	20	0	21	0	46

Greensboro, NC	15	0	30	0	32	0	28	0	46
Greensboro, NC	20	0	42	0	46	0	47	0	46
Greensboro, NC	25	0	51	0	55	0	49	0	47
Greensboro, NC	30	0	73	0	58	0	61	0	57
Greensboro, NC	35	0	73	0	73	0	68	0	67
Greensboro, NC	40	1	83	1	76	0	71	0	74
Greensboro, NC	45	3	87	4	85	2	78	1	77
Greensboro, NC	50	7	87	5	85	9	94	4	80
Greensboro, NC	55	10	87	5	85	12	94	9	80
Greensboro, NC	60	11	87	6	85	13	94	12	88
Greensboro, NC	100	13	111	6	85	13	94	12	88
Honolulu, HI	5	0	18	0	8	0	14	0	12
Honolulu, HI	10	0	22	0	21	0	22	0	20
Honolulu, HI	15	0	33	0	32	0	39	0	33
Honolulu, HI	20	0	39	0	37	0	39	0	37
Honolulu, HI	25	0	39	0	37	0	39	0	38
Honolulu, HI	30	0	39	0	46	0	46	0	41
Honolulu, HI	35	0	40	0	48	0	46	0	42
Honolulu, HI	40	0	40	0	50	0	46	0	42
Honolulu, HI	45	0	40	0	50	0	46	0	42
Honolulu, HI	50	0	40	0	56	0	46	0	42
Honolulu, HI	55	0	40	0	56	0	46	0	42
Honolulu, HI	60	0	40	0	56	0	46	0	42
Honolulu, HI	100	0	40	0	56	0	46	0	42
Houston, TX	5	0	24	0	20	0	11	0	18
Houston,	10	0	38	0	38	0	40	0	28

TX									
Houston, TX	15	0	60	0	56	0	66	0	58
Houston, TX	20	0	67	0	65	2	76	0	67
Houston, TX	25	2	92	3	93	5	84	1	88
Houston, TX	30	9	103	15	118	16	118	7	90
Houston, TX	35	23	108	27	118	39	118	18	101
Houston, TX	40	43	141	47	118	55	118	35	102
Houston, TX	45	50	141	57	118	74	118	47	110
Houston, TX	50	54	141	60	118	78	123	53	126
Houston, TX	55	59	141	61	118	80	123	55	126
Houston, TX	60	61	141	62	125	80	123	56	126
Houston, TX	100	63	141	62	125	80	123	56	126
Huntsville, AL	5	0	13	0				0	
Huntsville, AL	10	0	28	0	28	0	28	0	25
Huntsville, AL	15	0	39	0	39	0	35	0	40
Huntsville, AL	20	0	44	0	50	0	45	0	45
Huntsville, AL	25	0	61	0	50	0	53	0	53
Huntsville, AL	30	0	64	0	57	0	68	0	60
Huntsville, AL	35	1	80	0	69	0	71	0	73
Huntsville, AL	40	4	82	1	77	3	80	0	73

Huntsville, AL	45	10	89	2	84	3	80	0	75
Huntsville, AL	50	12	89	3	85	3	80	0	75
Huntsville, AL	55	14	89	4	85	3	80	1	80
Huntsville, AL	60	14	89	4	85	3	80	5	88
Huntsville, AL	100	14	89	4	85	3	80	5	88
Indianapolis, IN	5	0	51	0	23	0	30	0	31
Indianapolis, IN	10	0	51	0	23	0	30	0	31
Indianapolis, IN	15	0	51	0	35	0	30	0	37
Indianapolis, IN	20	0	51	0	43	0	47	0	42
Indianapolis, IN	25	0	51	0	56	0	58	0	63
Indianapolis, IN	30	0	69	0	75	0	66	0	63
Indianapolis, IN	35	1	85	1	81	0	72	1	76
Indianapolis, IN	40	6	88	2	81	6	83	2	80
Indianapolis, IN	45	12	91	3	89	13	83	8	88
Indianapolis, IN	50	17	101	3	89	23	98	11	88
Indianapolis, IN	55	20	106	3	89	28	98	12	88
Indianapolis, IN	60	21	108	3	89	29	98	14	88
Indianapolis, IN	100	22	108	3	89	29	98	14	88
Jackson, MS	5	0	4	0	47	0	35	0	31
Jackson,	10	0	22	0	47	0	35	0	31

MS									
Jackson, MS	15	0	36	0	47	0	36	0	34
Jackson, MS	20	0	56	0	47	0	54	0	43
Jackson, MS	25	0	56	0	53	0	60	0	55
Jackson, MS	30	0	66	0	63	0	64	0	71
Jackson, MS	35	0	70	0	64	0	71	0	71
Jackson, MS	40	0	74	1	82	1	79	0	71
Jackson, MS	45	1	76	2	82	1	79	1	76
Jackson, MS	50	2	77	2	82	2	79	2	85
Jackson, MS	55	2	77	2	82	2	79	4	85
Jackson, MS	60	3	80	2	82	2	79	5	85
Jackson, MS	100	3	80	2	82	2	79	5	85
Jacksonville, FL	5			0	9				
Jacksonville, FL	10	0	26	0	26	0	23		
Jacksonville, FL	15	0	42	0	38	0	41	0	41
Jacksonville, FL	20	0	51	0	53	0	54	0	51
Jacksonville, FL	25	0	55	0	63	0	68	0	61
Jacksonville, FL	30	0	68	0	69	1	76	0	67
Jacksonville, FL	35	1	77	0	71	2	79	0	75
Jacksonville, FL	40	1	77	0	73	2	79	0	75

Jacksonville, FL	45	1	77	1	95	3	83	0	75
Jacksonville, FL	50	6	81	3	95	7	86	4	83
Jacksonville, FL	55	8	81	4	95	7	86	6	83
Jacksonville, FL	60	8	81	4	95	7	86	8	89
Jacksonville, FL	100	8	81	4	95	7	86	8	89
Johnstown, PA	5	0	12	0	11	0	28	0	33
Johnstown, PA	10	0	27	0	23	0	28	0	33
Johnstown, PA	15	0	37	0	37	0	36	0	34
Johnstown, PA	20	0	51	0	50	0	46	0	44
Johnstown, PA	25	0	52	0	58	0	57	0	51
Johnstown, PA	30	0	64	0	66	0	62	0	58
Johnstown, PA	35	0	69	0	71	0	73	0	63
Johnstown, PA	40	1	83	1	77	1	76	0	75
Johnstown, PA	45	2	83	1	77	5	81	0	75
Johnstown, PA	50	3	84	1	77	6	86	0	75
Johnstown, PA	55	5	101	1	77	6	86	0	75
Johnstown, PA	60	5	101	1	77	6	86	0	75
Johnstown, PA	100	5	101	1	77	6	86	0	75
Kansas City, MO	5	0	6			0	19		
Kansas	10	0	36	0	31	0	27	0	25

City, MO									
Kansas City, MO	15	0	44	0	36	0	36	0	39
Kansas City, MO	20	0	46	0	41	0	45	0	41
Kansas City, MO	25	0	50	0	51	0	52	0	51
Kansas City, MO	30	0	64	0	66	0	64	0	58
Kansas City, MO	35	1	82	0	70	0	75	0	66
Kansas City, MO	40	2	82	0	73	2	87	0	75
Kansas City, MO	45	8	86	2	80	9	115	5	99
Kansas City, MO	50	16	106	4	80	20	115	15	99
Kansas City, MO	55	24	106	4	80	28	115	23	99
Kansas City, MO	60	34	106	4	80	31	115	29	106
Kansas City, MO	100	34	106	4	80	33	115	32	106
Kingston, NY	5	0		0		0		0	18
Kingston, NY	10	0	10	0		0	13	0	18
Kingston, NY	15	0	23	0	25	0	25	0	21
Kingston, NY	20	0	36	0	33	0	48	0	34
Kingston, NY	25	0	45	0	44	0	48	0	43
Kingston, NY	30	0	54	0	53	0	58	0	50
Kingston, NY	35	0	64	0	58	0	58	0	63
Kingston, NY	40	0	64	0	62	0	59	0	63

Kingston, NY	45	0	64	0	68	0	68	0	69
Kingston, NY	50	0	74	1	77	1	78	0	69
Kingston, NY	55	2	82	3	79	2	80	1	76
Kingston, NY	60	2	82	4	83	3	84	2	76
Kingston, NY	100	6	94	4	83	8	84	4	79
Knoxville, TN	5	0	6						
Knoxville, TN	10	0	32			0	21		
Knoxville, TN	15	0	42	0	46	0	40	0	39
Knoxville, TN	20	0	53	0	53	0	44	0	59
Knoxville, TN	25	0	58	0	68	0	63	0	59
Knoxville, TN	30	0	65	0	69	0	69	0	64
Knoxville, TN	35	0	75	1	78	1	84	2	81
Knoxville, TN	40	13	93	5	81	12	86	8	92
Knoxville, TN	45	25	95	10	85	25	92	19	92
Knoxville, TN	50	28	95	14	96	37	92	28	107
Knoxville, TN	55	30	96	14	96	42	92	30	107
Knoxville, TN	60	31	100	14	96	42	92	30	107
Knoxville, TN	100	31	100	14	96	42	92	30	107
Lafayette, LA	5	0	8			0			
Lafayette,	10	0	21	0	31	0	20	0	22

LA									
Lafayette, LA	15	0	34	0	39	0	30	0	37
Lafayette, LA	20	0	46	0	43	0	43	0	47
Lafayette, LA	25	0	61	0	50	0	51	0	56
Lafayette, LA	30	0	61	0	64	0	60	0	64
Lafayette, LA	35	0	73	1	77	0	60	0	73
Lafayette, LA	40	2	80	2	78	0	70	0	73
Lafayette, LA	45	3	84	2	78	0	72	0	74
Lafayette, LA	50	5	88	4	78	0	74	1	79
Lafayette, LA	55	8	88	9	91	5	89	5	93
Lafayette, LA	60	10	88	9	91	8	89	6	93
Lafayette, LA	100	13	88	10	91	10	89	6	93
Lake Charles, LA	5					0	8		
Lake Charles, LA	10	0	22	0	21	0	16	0	20
Lake Charles, LA	15	0	38	0	38	0	34	0	39
Lake Charles, LA	20	0	52	0	43	0	48	0	46
Lake Charles, LA	25	0	59	0	49	0	57	0	58
Lake Charles, LA	30	1	76	0	67	0	74	0	62
Lake Charles, LA	35	1	76	3	84	0	74	0	72
Lake Charles, LA	40	4	80	5	84	3	80	1	77

Lake Charles, LA	45	7	85	6	84	12	86	6	96
Lake Charles, LA	50	8	85	8	87	14	90	8	96
Lake Charles, LA	55	11	100	9	87	17	91	9	96
Lake Charles, LA	60	13	100	9	87	17	91	9	96
Lake Charles, LA	100	14	100	9	87	17	91	9	96
Las Vegas, NV	5								
Las Vegas, NV	10	0	40	0	38	0	38	0	40
Las Vegas, NV	15	0	45	0	47	0	41	0	49
Las Vegas, NV	20	0	54	0	51	0	47	0	53
Las Vegas, NV	25	0	61	0	52	0	52	0	60
Las Vegas, NV	30	0	65	0	59	0	62	0	63
Las Vegas, NV	35	0	65	0	74	0	66	0	64
Las Vegas, NV	40	0	71	0	74	0	74	0	75
Las Vegas, NV	45	6	85	5	80	7	105	6	90
Las Vegas, NV	50	22	90	12	88	21	105	17	90
Las Vegas, NV	55	35	93	19	88	29	105	27	94
Las Vegas, NV	60	38	93	19	88	31	105	33	98
Las Vegas, NV	100	39	94	21	88	34	105	33	98
Lexington, KY	5	0	13	0	42	0	35	0	43
Lexington,	10	0	13	0	42	0	35	0	43

KY									
Lexington, KY	15	0	29	0	42	0	35	0	43
Lexington, KY	20	0	42	0	45	0	43	0	43
Lexington, KY	25	0	52	0	59	0	60	0	54
Lexington, KY	30	0	60	0	73	0	67	0	59
Lexington, KY	35	0	73	0	73	0	71	0	72
Lexington, KY	40	0	73	0	73	2	79	1	78
Lexington, KY	45	1	82	0	73	3	80	2	78
Lexington, KY	50	2	90	0	73	8	80	2	78
Lexington, KY	55	2	90	0	73	9	82	2	78
Lexington, KY	60	2	90	0	73	9	82	2	78
Lexington, KY	100	2	90	0	73	10	82	2	78
Lincoln, NE	5	0	22	0	8	0	32	0	12
Lincoln, NE	10	0	22	0	16	0	32	0	23
Lincoln, NE	15	0	25	0	22	0	32	0	31
Lincoln, NE	20	0	35	0	38	0	37	0	36
Lincoln, NE	25	0	47	0	41	0	41	0	39
Lincoln, NE	30	0	53	0	50	0	48	0	48
Lincoln, NE	35	0	55	0	50	0	52	0	51
Lincoln, NE	40	0	55	0	56	0	55	0	56
Lincoln, NE	45	0	68	0	58	0	55	0	56
Lincoln, NE	50	0	68	0	58	0	65	0	66
Lincoln, NE	55	0	68	0	58	0	65	0	66
Lincoln, NE	60	0	68	0	58	0	65	0	66
Lincoln, NE	100	0	68	0	58	0	65	0	66
Little Rock, AR	5	0	14	0	13	0	11		

Little Rock, AR	10	0	26	0	29	0	22	0	19
Little Rock, AR	15	0	34	0	34	0	34	0	36
Little Rock, AR	20	0	44	0	44	0	46	0	42
Little Rock, AR	25	0	53	0	49	0	48	0	49
Little Rock, AR	30	0	64	0	56	0	58	0	56
Little Rock, AR	35	0	73	0	68	0	63	0	61
Little Rock, AR	40	0	75	0	75	0	74	0	66
Little Rock, AR	45	3	86	1	86	5	90	2	79
Little Rock, AR	50	4	86	1	86	13	93	4	82
Little Rock, AR	55	4	86	1	86	17	93	11	92
Little Rock, AR	60	4	86	1	86	17	93	11	92
Little Rock, AR	100	4	86	1	86	17	93	11	92
Los Angeles, CA	5	0	22			0	33		
Los Angeles, CA	10	0	53	0	40	0	40	0	43
Los Angeles, CA	15	0	53	0	56	0	54	0	56
Los Angeles, CA	20	3	98	0	61	0	66	1	83
Los Angeles, CA	25	10	98	0	75	1	96	3	93

Los Angeles, CA	30	24	106	8	98	20	109	15	98
Los Angeles, CA	35	53	133	32	98	48	127	40	112
Los Angeles, CA	40	76	140	67	113	67	141	63	112
Los Angeles, CA	45	101	152	87	113	85	141	82	128
Los Angeles, CA	50	111	152	100	113	88	141	87	128
Los Angeles, CA	55	114	152	102	133	88	141	87	128
Los Angeles, CA	60	114	152	102	133	88	141	87	128
Los Angeles, CA	100	114	152	102	133	88	141	87	128
Louisville, KY	5	0	9	0	58	0	35	0	37
Louisville, KY	10	0	22	0	58	0	35	0	37
Louisville, KY	15	0	51	0	58	0	41	0	44
Louisville, KY	20	0	56	0	58	0	47	0	44
Louisville, KY	25	0	63	0	68	0	61	0	61
Louisville, KY	30	1	82	0	73	0	72	0	73
Louisville, KY	35	3	92	3	102	6	94	5	86
Louisville, KY	40	15	97	6	102	21	94	9	92

Louisville, KY	45	16	97	7	102	30	94	15	101
Louisville, KY	50	16	97	8	102	37	98	16	101
Louisville, KY	55	17	97	9	102	37	98	16	101
Louisville, KY	60	17	97	9	102	38	98	16	101
Louisville, KY	100	17	97	9	102	38	98	16	101
Madison, WI	5	0	43	0	19	0	32	0	11
Madison, WI	10	0	43	0	19	0	32	0	22
Madison, WI	15	0	43	0	29	0	32	0	29
Madison, WI	20	0	43	0	48	0	35	0	35
Madison, WI	25	0	45	0	48	0	44	0	44
Madison, WI	30	0	46	0	51	0	48	0	47
Madison, WI	35	0	60	0	67	0	62	0	55
Madison, WI	40	0	70	0	67	0	62	0	65
Madison, WI	45	0	73	0	71	0	70	0	65
Madison, WI	50	1	77	0	75	1	76	0	69
Madison, WI	55	4	87	0	75	2	77	0	70
Madison, WI	60	5	87	0	75	4	84	0	72
Madison, WI	100	7	87	0	75	7	85	0	72
Memphis, TN	5	0	18			0	7		
Memphis,	10	0	23	0	29	0	23	0	25

TN									
Memphis, TN	15	0	33	0	36	0	35	0	32
Memphis, TN	20	0	47	0	45	0	48	0	48
Memphis, TN	25	0	59	0	67	0	61	0	49
Memphis, TN	30	0	71	0	67	0	63	0	61
Memphis, TN	35	4	81	0	67	6	88	0	69
Memphis, TN	40	10	90	3	81	21	89	1	80
Memphis, TN	45	19	92	8	93	32	103	8	83
Memphis, TN	50	22	92	12	93	40	103	22	96
Memphis, TN	55	29	108	13	93	42	107	30	97
Memphis, TN	60	29	108	13	93	42	107	31	97
Memphis, TN	100	29	108	13	93	42	107	32	105
Miami, FL	10	0	23	0	21	0	27	0	32
Miami, FL	15	0	43	0	36	0	47	0	34
Miami, FL	20	0	48	0	47	0	51	0	50
Miami, FL	25	0	57	0	52	0	69	0	61
Miami, FL	30	0	68	0	64	0	69	0	74
Miami, FL	35	0	71	0	69	0	74	0	74
Miami, FL	40	0	71	0	69	1	82	0	74
Miami, FL	45	0	71	0	73	1	82	2	93
Miami, FL	50	1	91	0	73	1	82	6	93
Miami, FL	55	2	91	1	88	1	82	7	100
Miami, FL	60	3	91	1	88	1	82	7	100
Miami, FL	100	3	91	1	88	1	82	7	100
Milwaukee, WI	5	0	48	0	18	0	22	0	22
Milwaukee,	10	0	48	0	27	0	33	0	30

WI									
Milwaukee, WI	15	0	48	0	42	0	47	0	30
Milwaukee, WI	20	0	55	0	49	0	47	0	42
Milwaukee, WI	25	0	57	0	53	0	48	0	48
Milwaukee, WI	30	0	65	0	57	0	57	0	55
Milwaukee, WI	35	0	72	0	66	0	63	0	66
Milwaukee, WI	40	2	84	0	75	0	68	0	71
Milwaukee, WI	45	4	84	1	78	2	79	1	78
Milwaukee, WI	50	8	94	1	78	4	86	1	78
Milwaukee, WI	55	14	103	3	100	12	94	1	78
Milwaukee, WI	60	18	112	3	100	20	110	3	93
Milwaukee, WI	100	18	112	3	100	23	110	3	93
Mobile, AL	5	0	8	0	48	0	14	0	2
Mobile, AL	10	0	10	0	48	0	22	0	18
Mobile, AL	15	0	40	0	48	0	32	0	33
Mobile, AL	20	0	43	0	54	0	45	0	42
Mobile, AL	25	0	63	0	58	0	56	0	58
Mobile, AL	30	0	63	0	67	0	66	0	62
Mobile, AL	35	0	75	0	74	0	74	0	73
Mobile, AL	40	3	78	3	80	0	74	2	79
Mobile, AL	45	6	82	6	89	0	75	10	89
Mobile, AL	50	8	85	6	89	2	87	14	91
Mobile, AL	55	9	91	6	89	2	87	14	91
Mobile, AL	60	9	91	6	89	2	87	16	91
Mobile, AL	100	11	98	6	89	2	87	16	91
Modesto, CA	5	0	15	0	11	0	16	0	19

Modesto, CA	10	0	33	0	31	0	27	0	28
Modesto, CA	15	0	42	0	40	0	39	0	36
Modesto, CA	20	0	51	0	51	0	45	0	50
Modesto, CA	25	0	66	0	61	0	52	0	57
Modesto, CA	30	1	77	0	66	0	71	0	63
Modesto, CA	35	1	77	0	74	1	78	0	67
Modesto, CA	40	3	91	1	77	1	78	1	79
Modesto, CA	45	18	94	8	88	8	85	4	89
Modesto, CA	50	32	97	11	88	15	94	11	89
Modesto, CA	55	40	100	13	89	17	94	21	93
Modesto, CA	60	40	100	13	89	17	94	24	97
Modesto, CA	100	40	100	13	89	17	94	25	97
Muskegon, MI	5	0	38	0	21	0	21	0	21
Muskegon, MI	10	0	38	0	21	0	21	0	21
Muskegon, MI	15	0	38	0	38	0	34	0	31
Muskegon, MI	20	0	39	0	46	0	41	0	45
Muskegon, MI	25	0	53	0	65	0	54	0	49
Muskegon, MI	30	0	62	0	66	0	55	0	56
Muskegon, MI	35	0	73	0	74	0	73	0	68
Muskegon,	40	0	75	0	74	2	77	0	68

MI									
Muskegon, MI	45	2	80	0	74	4	77	0	68
Muskegon, MI	50	4	84	1	79	6	92	1	84
Muskegon, MI	55	5	84	1	79	10	92	4	90
Muskegon, MI	60	6	97	1	79	15	92	8	99
Muskegon, MI	100	10	108	1	79	20	113	12	102
Nashville, TN	5	0	10	0	48	0	39	0	42
Nashville, TN	10	0	30	0	48	0	39	0	42
Nashville, TN	15	0	41	0	48	0	42	0	42
Nashville, TN	20	0	61	0	48	0	50	0	54
Nashville, TN	25	0	73	0	56	0	62	0	59
Nashville, TN	30	0	73	0	72	0	72	0	68
Nashville, TN	35	5	80	0	72	3	80	1	78
Nashville, TN	40	14	86	7	88	12	83	6	80
Nashville, TN	45	19	86	7	88	16	87	12	91
Nashville, TN	50	21	95	7	88	23	97	16	98
Nashville, TN	55	22	95	7	88	23	97	17	98
Nashville, TN	60	22	95	7	88	23	97	17	98
Nashville, TN	100	23	95	7	88	23	97	17	98
New Orleans, LA	5					0	11		

New Orleans, LA	10	0	24	0	34	0	33	0	31
New Orleans, LA	15	0	42	0	42	0	35	0	38
New Orleans, LA	20	0	44	0	50	0	51	0	54
New Orleans, LA	25	0	64	0	60	0	63	0	58
New Orleans, LA	30	1	81	0	69	0	71	0	64
New Orleans, LA	35	2	81	1	80	0	71	0	72
New Orleans, LA	40	4	87	3	80	4	81	0	75
New Orleans, LA	45	8	103	7	83	8	84	4	83
New Orleans, LA	50	9	103	10	85	13	89	6	83
New Orleans, LA	55	14	103	12	94	13	89	8	83
New Orleans, LA	60	16	103	12	94	13	89	11	91
New Orleans, LA	100	16	103	12	94	13	89	13	95
New York City, NY	5	0	34	0	35	0	40	0	33
New York City, NY	10	0	42	0	36	0	40	0	45
New York City, NY	15	0	54	0	47	0	52	0	45
New York City, NY	20	0	59	0	64	0	54	0	51
New York City, NY	25	0	72	0	71	1	78	0	61
New York City, NY	30	0	74	2	84	3	94	2	78
New York City, NY	35	4	82	8	87	7	94	5	103
New York	40	9	96	20	93	13	95	11	103

City, NY									
New York City, NY	45	18	111	27	99	23	104	21	103
New York City, NY	50	22	111	27	99	32	121	29	103
New York City, NY	55	26	111	30	106	37	121	32	103
New York City, NY	60	28	112	30	106	37	121	34	130
New York City, NY	100	30	130	30	106	37	121	35	130
Oakland, CA	5	0	22	0	21	0	24	0	21
Oakland, CA	10	0	33	0	32	0	43	0	31
Oakland, CA	15	0	49	0	58	0	47	0	43
Oakland, CA	20	0	58	0	67	0	65	0	68
Oakland, CA	25	0	75	0	72	1	77	1	77
Oakland, CA	30	5	89	3	83	2	80	4	80
Oakland, CA	35	6	89	4	83	3	90	13	99
Oakland, CA	40	9	94	5	83	3	90	16	101
Oakland, CA	45	9	94	5	83	3	90	16	101
Oakland, CA	50	9	94	5	83	3	90	16	101
Oakland, CA	55	9	94	5	83	3	90	16	101
Oakland, CA	60	9	94	5	83	3	90	16	101
Oakland, CA	100	9	94	5	83	3	90	16	101
Oklahoma City, OK	5			0	15	0	9		

Oklahoma City, OK	10	0	29	0	21	0	33	0	21
Oklahoma City, OK	15	0	34	0	35	0	37	0	39
Oklahoma City, OK	20	0	40	0	45	0	45	0	47
Oklahoma City, OK	25	0	48	0	48	0	54	0	49
Oklahoma City, OK	30	0	58	0	62	0	70	0	54
Oklahoma City, OK	35	0	71	0	65	0	70	0	66
Oklahoma City, OK	40	0	71	0	69	1	81	0	70
Oklahoma City, OK	45	1	78	1	79	3	81	2	83
Oklahoma City, OK	50	10	82	4	82	10	94	10	88
Oklahoma City, OK	55	15	93	6	82	12	94	18	95
Oklahoma City, OK	60	16	93	6	82	13	94	28	95
Oklahoma City, OK	100	16	93	6	82	15	94	34	95
Omaha, NE	5	0	23	0	20	0	30	0	25
Omaha, NE	10	0	23	0	20	0	30	0	25
Omaha, NE	15	0	36	0	27	0	32	0	32
Omaha, NE	20	0	49	0	42	0	41	0	40
Omaha, NE	25	0	56	0	49	0	55	0	53
Omaha, NE	30	0	62	0	56	0	58	0	59
Omaha, NE	35	0	68	0	60	0	67	0	64
Omaha, NE	40	0	73	0	66	1	78	0	69
Omaha, NE	45	0	75	0	72	1	78	0	75
Omaha, NE	50	2	76	0	73	2	80	0	75
Omaha, NE	55	3	78	0	73	3	83	1	76
Omaha, NE	60	4	78	1	79	5	83	2	77
Omaha, NE	100	4	78	1	79	6	83	2	77
Orlando, FL	5	0	12	0	3				

Orlando, FL	10	0	24	0	22	0	31		
Orlando, FL	15	0	45	0	35	0	42	0	38
Orlando, FL	20	0	50	0	48	0	63	0	49
Orlando, FL	25	0	61	0	58	0	63	0	61
Orlando, FL	30	0	66	0	68	0	69	0	68
Orlando, FL	35	1	76	0	70	0	74	0	72
Orlando, FL	40	1	76	1	78	1	76	0	74
Orlando, FL	45	4	86	4	84	3	98	2	84
Orlando, FL	50	5	86	6	89	6	98	4	84
Orlando, FL	55	6	86	6	89	10	98	8	88
Orlando, FL	60	7	86	6	89	10	98	8	88
Orlando, FL	100	8	86	6	89	10	98	8	88
Philadelphia, PA	5	0	28	0	23	0	27	0	38
Philadelphia, PA	10	0	38	0	40	0	42	0	42
Philadelphia, PA	15	0	48	0	43	0	44	0	42
Philadelphia, PA	20	0	63	0	51	0	56	0	53
Philadelphia, PA	25	0	65	0	65	0	56	0	58
Philadelphia, PA	30	1	77	0	66	0	65	0	62
Philadelphia, PA	35	2	77	2	82	3	81	0	72
Philadelphia, PA	40	6	81	5	84	7	90	6	86
Philadelphia, PA	45	16	90	13	90	15	92	8	93
Philadelphia, PA	50	25	97	19	91	33	111	15	93
Philadelphia, PA	55	27	97	24	103	38	111	27	115
Philadelphia, PA	60	30	97	24	103	38	111	29	115
Philadelphia, PA	100	32	130	24	103	38	111	29	115

Phoenix, AZ	5								
Phoenix, AZ	10			0	39	0	43	0	29
Phoenix, AZ	15	0	44	0	44	0	43	0	45
Phoenix, AZ	20	0	53	0	50	0	45	0	54
Phoenix, AZ	25	0	53	0	61	0	58	0	60
Phoenix, AZ	30	0	68	0	65	0	67	0	73
Phoenix, AZ	35	0	75	0	69	0	75	1	82
Phoenix, AZ	40	5	83	4	81	10	87	7	87
Phoenix, AZ	45	19	87	13	81	31	88	22	87
Phoenix, AZ	50	42	92	17	83	41	88	35	89
Phoenix, AZ	55	48	92	22	87	43	93	46	96
Phoenix, AZ	60	49	103	22	87	45	96	46	96
Phoenix, AZ	100	49	103	22	87	45	96	46	96
Pittsburgh, PA	5	0	18	0	22	0	21	0	26
Pittsburgh, PA	10	0	28	0	30	0	32	0	35
Pittsburgh, PA	15	0	48	0	45	0	43	0	43
Pittsburgh, PA	20	0	56	0	52	0	49	0	53
Pittsburgh, PA	25	0	63	0	71	0	66	0	60
Pittsburgh, PA	30	0	74	3	84	0	75	0	68
Pittsburgh, PA	35	3	86	5	84	3	86	1	78
Pittsburgh, PA	40	7	86	13	85	12	86	8	82
Pittsburgh, PA	45	13	92	15	85	21	98	17	93
Pittsburgh, PA	50	16	92	17	89	29	109	20	101
Pittsburgh, PA	55	18	106	17	89	30	109	20	101
Pittsburgh, PA	60	19	113	17	89	30	109	20	101
Pittsburgh,	100	20	122	17	89	30	109	20	101

PA									
Portland, OR	5	0	21	0	42	0	14	0	31
Portland, OR	10	0	22	0	42	0	14	0	31
Portland, OR	15	0	39	0	42	0	49	0	38
Portland, OR	20	0	50	0	60	0	49	0	51
Portland, OR	25	0	52	0	60	0	62	0	56
Portland, OR	30	0	65	0	70	0	67	0	66
Portland, OR	35	0	75	0	73	0	67	0	73
Portland, OR	40	2	84	1	84	2	79	0	73
Portland, OR	45	2	84	1	84	2	79	0	73
Portland, OR	50	2	84	1	84	2	79	1	106
Portland, OR	55	2	84	1	84	2	79	1	106
Portland, OR	60	2	84	1	84	2	79	1	106
Portland, OR	100	2	84	1	84	2	79	1	106
Providence, RI	5	0	35	0	39	0	40	0	63
Providence, RI	10	0	35	0	39	0	40	0	63
Providence, RI	15	0	35	0	39	0	40	0	63
Providence, RI	20	0	44	0	39	0	41	0	63
Providence, RI	25	0	48	0	48	0	52	0	63
Providence, RI	30	0	50	0	55	0	56	0	63

Providence, RI	35	0	71	0	62	0	64	0	66
Providence, RI	40	0	72	1	80	0	72	0	70
Providence, RI	45	2	78	2	80	5	84	3	81
Providence, RI	50	6	91	2	80	9	90	5	81
Providence, RI	55	10	91	5	86	14	93	8	93
Providence, RI	60	15	101	8	97	17	97	11	104
Providence, RI	100	18	117	9	110	20	98	13	130
Raleigh, NC	5	0	10	0	25	0	13	0	10
Raleigh, NC	10	0	19	0	28	0	23	0	29
Raleigh, NC	15	0	35	0	37	0	46	0	36
Raleigh, NC	20	0	52	0	47	0	46	0	53
Raleigh, NC	25	0	54	0	52	0	53	0	57
Raleigh, NC	30	0	71	0	68	1	78	0	68
Raleigh, NC	35	0	71	0	75	1	78	1	76
Raleigh, NC	40	1	79	2	78	4	85	1	76
Raleigh, NC	45	4	82	6	85	10	88	7	91
Raleigh, NC	50	9	100	11	85	16	90	9	91
Raleigh, NC	55	11	100	11	85	22	98	9	91
Raleigh, NC	60	12	100	12	85	25	98	9	91
Raleigh, NC	100	15	115	12	85	26	98	9	91
Riverside, CA	10								
Riverside, CA	15	0	52	0	47	0	48	0	45
Riverside, CA	20	0	63	0	52	0	53	0	53
Riverside, CA	25	0	63	0	63	0	64	0	59
Riverside, CA	30	0	68	0	71	0	74	0	72
Riverside,	35	7	86	2	81	2	78	1	80

CA									
Riverside, CA	40	20	88	14	93	15	92	9	91
Riverside, CA	45	54	133	54	114	44	108	42	102
Riverside, CA	50	75	133	88	121	76	124	82	112
Riverside, CA	55	102	133	109	121	100	142	99	112
Riverside, CA	60	118	137	125	125	114	142	113	116
Riverside, CA	100	131	153	131	145	120	145	122	142
Rochester, NY	5	0	15	0	12	0	15	0	11
Rochester, NY	10	0	28	0	26	0	27	0	23
Rochester, NY	15	0	33	0	38	0	35	0	33
Rochester, NY	20	0	47	0	43	0	50	0	43
Rochester, NY	25	0	52	0	49	0	53	0	55
Rochester, NY	30	0	61	0	61	0	60	0	59
Rochester, NY	35	0	61	0	63	0	72	0	64
Rochester, NY	40	0	66	0	64	0	72	0	64
Rochester, NY	45	0	75	0	73	2	80	2	81
Rochester, NY	50	0	75	0	73	5	83	3	83
Rochester, NY	55	1	80	0	73	5	83	3	83
Rochester, NY	60	2	84	0	73	5	83	4	83
Rochester, NY	100	6	101	0	73	7	84	4	83

Sacramento, CA	5			0	34	0	34		
Sacramento, CA	10	0	41	0	36	0	38	0	37
Sacramento, CA	15	0	58	0	55	0	44	0	42
Sacramento, CA	20	0	58	0	57	0	52	0	44
Sacramento, CA	25	0	62	0	65	0	55	0	65
Sacramento, CA	30	0	68	1	80	0	70	0	68
Sacramento, CA	35	5	89	1	80	0	74	1	80
Sacramento, CA	40	19	93	22	92	10	89	8	84
Sacramento, CA	45	47	93	46	95	38	108	28	94
Sacramento, CA	50	71	118	61	102	50	109	59	106
Sacramento, CA	55	79	122	61	102	53	117	73	115
Sacramento, CA	60	79	122	61	102	53	117	74	115
Sacramento, CA	100	79	122	61	102	53	117	74	115
Salt Lake City, UT	5	0	43	0	34	0	27	0	19
Salt Lake City, UT	10	0	43	0	34	0	27	0	31
Salt Lake City, UT	15	0	43	0	34	0	27	0	40
Salt Lake City, UT	20	0	43	0	43	0	33	0	45
Salt Lake City, UT	25	0	57	0	51	0	51	0	47
Salt Lake City, UT	30	0	66	0	60	0	56	0	58
Salt Lake	35	0	69	0	70	0	65	0	60

City, UT									
Salt Lake City, UT	40	2	84	0	75	1	78	0	72
Salt Lake City, UT	45	6	90	2	77	4	81	3	83
Salt Lake City, UT	50	12	90	2	77	14	95	15	86
Salt Lake City, UT	55	13	91	2	77	18	100	20	90
Salt Lake City, UT	60	13	91	2	77	19	100	20	90
Salt Lake City, UT	100	14	91	3	77	19	100	20	90
San Antonio, TX	5	0	8					0	12
San Antonio, TX	10	0	22	0	20	0	26	0	21
San Antonio, TX	15	0	40	0	36	0	30	0	35
San Antonio, TX	20	0	48	0	52	0	48	0	46
San Antonio, TX	25	0	63	0	58	0	62	0	53
San Antonio, TX	30	0	67	0	64	0	66	0	59
San Antonio, TX	35	3	83	2	86	1	76	0	71
San Antonio, TX	40	6	91	3	86	3	84	2	76
San Antonio, TX	45	10	91	7	89	11	91	5	80
San Antonio, TX	50	12	91	10	91	12	91	11	93
San Antonio, TX	55	20	92	15	95	15	91	17	93
San Antonio, TX	60	21	92	15	95	15	91	20	93
San Antonio, TX	100	21	92	15	95	15	91	21	93

San Diego, CA	5	0	49						
San Diego, CA	10	0	49	0	38	0	39	0	43
San Diego, CA	15	0	52	0	43	0	45	0	49
San Diego, CA	20	0	68	0	53	0	51	0	50
San Diego, CA	25	0	74	0	59	0	65	0	72
San Diego, CA	30	2	79	0	74	2	78	3	95
San Diego, CA	35	14	84	1	77	7	82	12	95
San Diego, CA	40	26	103	9	86	18	89	24	100
San Diego, CA	45	35	103	14	95	23	89	29	100
San Diego, CA	50	36	103	22	95	23	89	37	100
San Diego, CA	55	38	103	23	95	24	89	38	100
San Diego, CA	60	38	103	23	95	24	89	38	100
San Diego, CA	100	38	103	23	95	24	89	38	100
San Jose, CA	5								
San Jose, CA	10	0	44	0	43	0	38	0	35
San Jose, CA	15	0	48	0	54	0	52	0	41
San Jose, CA	20	0	63	0	60	0	60	0	63
San Jose, CA	25	0	70	0	69	0	74	0	75
San Jose, CA	30	1	80	1	83	2	85	0	75
San Jose,	35	5	82	2	83	3	85	4	85

CA									
San Jose, CA	40	8	85	5	83	3	85	6	94
San Jose, CA	45	12	101	8	84	4	87	13	94
San Jose, CA	50	13	101	8	84	4	87	14	105
San Jose, CA	55	14	101	8	84	4	87	14	105
San Jose, CA	60	14	101	8	84	4	87	14	105
San Jose, CA	100	14	101	8	84	4	87	14	105
Seattle, WA	5							0	10
Seattle, WA	10			0	31	0	28	0	26
Seattle, WA	15	0	42	0	38	0	51	0	37
Seattle, WA	20	0	49	0	48	0	51	0	49
Seattle, WA	25	0	61	0	55	0	55	0	53
Seattle, WA	30	0	65	0	71	0	57	0	57
Seattle, WA	35	0	67	0	71	0	63	0	71
Seattle, WA	40	4	83	1	76	1	77	3	84
Seattle, WA	45	8	85	4	87	1	77	4	84
Seattle, WA	50	11	97	4	87	1	77	8	111
Seattle, WA	55	11	97	4	87	1	77	8	111
Seattle, WA	60	11	97	4	87	1	77	8	111
Seattle, WA	100	11	97	4	87	1	77	8	111
Shreveport, LA	5	0	8					0	6
Shreveport, LA	10	0	19	0	21	0	15	0	12
Shreveport, LA	15	0	32	0	39	0	42	0	43
Shreveport, LA	20	0	50	0	43	0	47	0	44
Shreveport, LA	25	0	58	0	50	0	53	0	53
Shreveport, LA	30	0	73	0	59	0	61	0	64

Shreveport, LA	35	0	75	0	66	1	77	0	69
Shreveport, LA	40	3	85	0	74	3	77	1	79
Shreveport, LA	45	4	85	2	83	7	83	2	84
Shreveport, LA	50	6	85	2	83	14	87	14	89
Shreveport, LA	55	7	85	2	83	18	90	18	89
Shreveport, LA	60	9	86	2	83	18	90	19	89
Shreveport, LA	100	10	92	2	83	18	90	19	89
Spokane, WA	5	0	21	0	38	0	18	0	14
Spokane, WA	10	0	21	0	38	0	18	0	14
Spokane, WA	15	0	21	0	38	0	18	0	14
Spokane, WA	20	0	21	0	38	0	32	0	28
Spokane, WA	25	0	42	0	44	0	41	0	40
Spokane, WA	30	0	42	0	52	0	51	0	44
Spokane, WA	35	0	53	0	59	0	56	0	55
Spokane, WA	40	0	70	0	65	0	63	0	66
Spokane, WA	45	0	70	0	71	0	72	0	73
Spokane, WA	50	0	74	0	75	0	72	1	77
Spokane, WA	55	6	81	0	75	0	72	1	77
Spokane, WA	60	6	81	0	75	0	72	1	77
Spokane,	100	6	81	0	75	0	72	1	77

WA									
St Louis, MO	5	0	13	0	20	0	16	0	13
St Louis, MO	10	0	30	0	25	0	32	0	27
St Louis, MO	15	0	37	0	41	0	39	0	31
St Louis, MO	20	0	51	0	43	0	44	0	47
St Louis, MO	25	0	59	0	57	0	55	0	58
St Louis, MO	30	0	64	0	73	0	67	0	72
St Louis, MO	35	4	83	6	81	3	87	1	77
St Louis, MO	40	12	91	9	82	8	87	5	87
St Louis, MO	45	20	93	13	82	23	96	11	98
St Louis, MO	50	27	106	14	82	38	104	24	98
St Louis, MO	55	28	108	14	82	47	110	27	98
St Louis, MO	60	30	116	14	82	50	110	28	98
St Louis, MO	100	30	116	14	82	50	110	28	98
Stockton, CA	5	0	31	0	20	0	19	0	21
Stockton, CA	10	0	32	0	28	0	27	0	26
Stockton, CA	15	0	37	0	37	0	34	0	37
Stockton, CA	20	0	46	0	49	0	47	0	43
Stockton, CA	25	0	54	0	57	0	53	0	52
Stockton, CA	30	0	61	0	67	0	65	0	56

Stockton, CA	35	0	71	0	73	0	72	0	71
Stockton, CA	40	1	82	1	80	0	75	4	83
Stockton, CA	45	10	89	5	81	1	86	10	85
Stockton, CA	50	15	89	6	81	1	86	14	100
Stockton, CA	55	15	89	7	97	1	86	21	103
Stockton, CA	60	15	89	7	97	1	86	23	103
Stockton, CA	100	15	89	7	97	1	86	23	103
Syracuse, NY	5	0	13	0	10	0			
Syracuse, NY	10	0	29	0	20	0	24	0	30
Syracuse, NY	15	0	31	0	38	0	36	0	38
Syracuse, NY	20	0	42	0	44	0	40	0	43
Syracuse, NY	25	0	57	0	54	0	47	0	54
Syracuse, NY	30	0	62	0	59	0	54	0	57
Syracuse, NY	35	0	67	0	72	0	71	0	62
Syracuse, NY	40	0	73	1	76	0	75	0	73
Syracuse, NY	45	0	73	2	76	1	76	1	82
Syracuse, NY	50	0	73	3	76	5	81	2	82
Syracuse, NY	55	1	76	3	76	7	87	2	82
Syracuse, NY	60	4	95	4	83	8	87	3	82
Syracuse,	100	6	109	4	83	9	92	3	82

NY									
Tampa, FL	5								
Tampa, FL	10	0	25	0	19	0	24	0	25
Tampa, FL	15	0	47	0	33	0	41	0	43
Tampa, FL	20	0	57	0	57	0	58	0	59
Tampa, FL	25	0	69	0	67	0	65	0	67
Tampa, FL	30	0	71	0	69	0	70	1	78
Tampa, FL	35	2	79	2	81	0	74	2	79
Tampa, FL	40	2	79	3	81	4	89	7	79
Tampa, FL	45	5	93	9	84	10	89	9	79
Tampa, FL	50	9	93	12	84	15	91	11	87
Tampa, FL	55	11	93	12	84	17	91	19	90
Tampa, FL	60	13	93	12	84	18	91	19	90
Tampa, FL	100	15	93	12	84	18	91	20	92
Toledo, OH	5	0	41	0	27	0	16	0	29
Toledo, OH	10	0	41	0	31	0	26	0	29
Toledo, OH	15	0	41	0	32	0	33	0	36
Toledo, OH	20	0	45	0	42	0	42	0	54
Toledo, OH	25	0	58	0	58	0	50	0	55
Toledo, OH	30	0	60	0	58	0	64	0	62
Toledo, OH	35	0	71	1	78	2	77	0	69
Toledo, OH	40	4	81	3	79	3	79	0	70
Toledo, OH	45	7	86	6	90	6	79	1	77
Toledo, OH	50	9	86	9	90	11	90	4	80
Toledo, OH	55	12	96	10	90	16	90	5	81
Toledo, OH	60	13	104	10	90	22	94	6	81
Toledo, OH	100	14	104	10	90	23	108	6	81
Tucson, AZ	10	0	33	0	29				
Tucson, AZ	15	0	40	0	44	0	39	0	44
Tucson, AZ	20	0	45	0	47	0	46	0	45
Tucson, AZ	25	0	55	0	53	0	55	0	53
Tucson, AZ	30	0	65	0	61	0	69	0	56
Tucson, AZ	35	0	73	0	66	0	69	0	64
Tucson, AZ	40	1	76	0	70	0	70	0	71
Tucson, AZ	45	2	76	0	73	3	80	2	76

Tucson, AZ	50	6	80	0	75	5	80	6	83
Tucson, AZ	55	8	87	0	75	8	87	9	83
Tucson, AZ	60	9	87	0	75	8	87	9	83
Tucson, AZ	100	9	87	0	75	8	87	9	83
Tulsa, OK	5			0	14	0	10		
Tulsa, OK	10	0	24	0	26	0	23	0	23
Tulsa, OK	15	0	41	0	36	0	42	0	35
Tulsa, OK	20	0	52	0	46	0	46	0	47
Tulsa, OK	25	0	53	0	55	0	56	0	50
Tulsa, OK	30	0	68	0	70	0	63	0	68
Tulsa, OK	35	3	83	2	76	1	79	1	76
Tulsa, OK	40	7	83	2	76	8	91	3	85
Tulsa, OK	45	13	91	3	81	21	92	5	85
Tulsa, OK	50	19	91	3	81	23	96	15	94
Tulsa, OK	55	22	94	3	81	23	96	20	94
Tulsa, OK	60	22	94	3	81	23	96	25	112
Tulsa, OK	100	22	94	3	81	23	96	26	112
Washington, DC	5	0	30	0	29	0	25	0	28
Washington, DC	10	0	40	0	43	0	33	0	36
Washington, DC	15	0	54	0	50	0	37	0	45
Washington, DC	20	0	58	0	57	0	55	0	53
Washington, DC	25	0	65	0	64	0	72	0	56
Washington, DC	30	0	75	0	68	0	72	0	71
Washington, DC	35	3	95	2	80	11	100	0	71
Washington, DC	40	13	95	8	89	23	100	10	94
Washington, DC	45	18	99	18	99	36	100	19	116
Washington, DC	50	19	99	18	99	40	100	28	125

Washington, DC	55	22	106	22	123	42	100	34	125
Washington, DC	60	22	106	23	123	42	100	35	125
Washington, DC	100	24	125	23	123	42	100	35	125
Wichita, KS	5			0	17	0	18	0	23
Wichita, KS	10	0	32	0	36	0	31	0	26
Wichita, KS	15	0	36	0	42	0	39	0	37
Wichita, KS	20	0	48	0	52	0	57	0	53
Wichita, KS	25	0	57	0	59	0	57	0	53
Wichita, KS	30	0	66	0	64	0	59	0	64
Wichita, KS	35	0	67	0	64	0	65	0	74
Wichita, KS	40	1	80	0	68	0	71	0	74
Wichita, KS	45	3	84	0	68	1	76	0	75
Wichita, KS	50	5	89	1	76	1	76	1	76
Wichita, KS	55	6	89	1	76	5	84	4	81
Wichita, KS	60	6	89	1	76	6	84	6	85
Wichita, KS	100	6	89	1	76	7	84	7	86
Worcester, MA	5	0		0	37	0		0	
Worcester, MA	10	0		0	37	0		0	
Worcester, MA	15	0	26	0	37	0	21	0	21
Worcester, MA	20	0	33	0	37	0	34	0	29
Worcester, MA	25	0	39	0	37	0	43	0	35
Worcester, MA	30	0	41	0	53	0	43	0	42
Worcester, MA	35	0	55	0	53	0	47	0	53
Worcester, MA	40	0	57	0	58	0	59	0	66
Worcester, MA	45	0	62	0	64	0	66	0	70
Worcester,	50	1	80	0	72	0	72	0	70

MA									
Worcester, MA	55	1	80	1	76	0	75	1	77
Worcester, MA	60	3	80	1	76	2	87	3	83
Worcester, MA	100	9	89	3	82	8	92	5	91

Number of exceedances of 75 ppb and highest 8-h concentration for different cutoff concentrations (Continued)

city	cutoff conc. (ppb)	Number of exceedances of 75 ppb 2007	Highest 8-hour conc. (ppb) 2007	Number of exceedances of 75 ppb 2008	Highest 8-hour conc. (ppb) 2008	Number of exceedances of 75 ppb 2009	Highest 8-hour conc. (ppb) 2009	Number of exceedances of 75 ppb 2010	Highest 8-hour conc. (ppb) 2010
Akron, OH	5	0	27	0	29	0	46	0	22
Akron, OH	10	0	27	0	29	0	46	0	26
Akron, OH	15	0	30	0	45	0	46	0	41
Akron, OH	20	0	59	0	50	0	52	0	46
Akron, OH	25	0	59	0	56	0	54	0	59
Akron, OH	30	0	69	0	63	0	69	0	65
Akron, OH	35	3	86	0	71	0	69	0	71
Akron, OH	40	4	86	3	80	0	72	2	78
Akron, OH	45	9	90	6	91	0	72	4	82
Akron, OH	50	17	97	7	91	0	72	4	82
Akron, OH	55	20	97	7	91	0	72	4	82
Akron, OH	60	22	97	7	91	0	72	4	82
Akron, OH	100	22	97	7	91	0	72	4	82
Albuquerque, NM	10	0	36						
Albuquerque, NM	15	0	44	0	39	0	44	0	44
Albuquerque, NM	20	0	53	0	60	0	46	0	51
Albuquerque, NM	25	0	53	0	60	0	51	0	53
Albuquerque, NM	30	0	57	0	60	0	56	0	66
Albuquerque, NM	35	0	67	0	64	0	62	0	67
Albuquerque, NM	40	0	67	0	70	0	65	0	69
Albuquerque, NM	45	0	74	0	71	0	69	0	70
Albuquerque, NM	50	1	79	0	72	0	73	1	78
Albuquerqu	55	2	81	0	72	0	73	1	78

e, NM									
Albuquerque, NM	60	2	81	0	72	0	73	1	78
Albuquerque, NM	100	2	81	0	72	0	73	1	78
Atlanta, GA	5	0	50	0	42	0	20	0	11
Atlanta, GA	10	0	50	0	42	0	27	0	27
Atlanta, GA	15	0	50	0	42	0	43	0	41
Atlanta, GA	20	0	50	0	49	0	46	0	45
Atlanta, GA	25	0	64	0	61	0	60	1	79
Atlanta, GA	30	1	84	0	75	0	72	1	79
Atlanta, GA	35	1	84	4	88	2	81	11	98
Atlanta, GA	40	26	106	11	96	10	94	24	98
Atlanta, GA	45	36	106	21	102	13	94	25	98
Atlanta, GA	50	44	106	27	108	14	94	25	98
Atlanta, GA	55	51	124	28	108	14	94	25	98
Atlanta, GA	60	51	124	28	108	14	94	25	98
Atlanta, GA	100	51	124	28	108	14	94	25	98
Austin, TX	5	0	10	0	10	0	13		
Austin, TX	10	0	19	0	24	0	24		
Austin, TX	15	0	32	0	31	0	24	0	29
Austin, TX	20	0	43	0	42	0	40	0	42
Austin, TX	25	0	57	0	50	0	43	0	45
Austin, TX	30	0	57	0	59	0	54	0	53
Austin, TX	35	0	64	0	65	0	63	0	58
Austin, TX	40	0	70	0	65	0	68	0	66
Austin, TX	45	0	74	0	71	1	80	0	72
Austin, TX	50	2	93	0	75	2	80	1	77
Austin, TX	55	4	93	2	78	5	80	1	77
Austin, TX	60	4	93	2	78	5	80	3	80
Austin, TX	100	4	93	2	78	5	80	3	80
Bakersfield, CA	5							0	29
Bakersfield, CA	10	0	19	0	43	0	33	0	32
Bakersfield,	15	0	44	0	47	0	42	0	58

CA									
Bakersfield, CA	20	0	45	0	47	0	45	0	62
Bakersfield, CA	25	0	55	0	58	0	48	0	62
Bakersfield, CA	30	0	68	0	67	0	58	0	62
Bakersfield, CA	35	0	74	0	74	0	64	1	76
Bakersfield, CA	40	2	81	4	81	0	74	2	77
Bakersfield, CA	45	19	88	19	88	3	81	3	81
Bakersfield, CA	50	53	99	51	108	20	90	22	87
Bakersfield, CA	55	79	99	80	108	46	94	46	94
Bakersfield, CA	60	88	109	93	113	76	102	62	107
Bakersfield, CA	100	91	110	106	121	84	110	69	107
Baltimore, MD	5	0	21	0	14	0	14	0	11
Baltimore, MD	10	0	28	0	29	0	26	0	26
Baltimore, MD	15	0	39	0	34	0	36	0	38
Baltimore, MD	20	0	53	0	44	0	47	0	39
Baltimore, MD	25	0	65	0	65	0	53	0	51
Baltimore, MD	30	0	65	0	67	0	62	0	62
Baltimore, MD	35	2	82	1	79	0	71	0	71
Baltimore, MD	40	8	87	5	86	4	85	1	76
Baltimore, MD	45	27	91	12	100	7	109	16	96

Baltimore, MD	50	39	118	17	100	10	109	26	101
Baltimore, MD	55	43	118	22	102	10	109	31	101
Baltimore, MD	60	45	118	23	102	10	109	32	101
Baltimore, MD	100	45	118	23	102	10	109	33	115
Baton Rouge, LA	5	0	21	0	12				
Baton Rouge, LA	10	0	32	0	25	0	27	0	15
Baton Rouge, LA	15	0	43	0	43	0	49	0	67
Baton Rouge, LA	20	0	66	0	52	0	59	0	70
Baton Rouge, LA	25	0	71	0	70	0	67	0	72
Baton Rouge, LA	30	2	80	2	79	0	74	0	72
Baton Rouge, LA	35	7	83	4	80	3	84	8	83
Baton Rouge, LA	40	20	95	12	83	11	94	13	84
Baton Rouge, LA	45	28	107	14	86	12	94	14	84
Baton Rouge, LA	50	32	107	15	86	13	94	17	89
Baton Rouge, LA	55	32	107	15	86	13	94	17	89
Baton Rouge, LA	60	32	107	15	86	13	94	17	89
Baton Rouge, LA	100	32	107	15	86	13	94	17	89
Biddeford, ME	5	0	37	0	13			0	17
Biddeford, ME	10	0	37	0	29	0	33	0	31
Biddeford,	15	0	37	0	36	0	36	0	33

ME									
Biddeford, ME	20	0	41	0	48	0	40	0	40
Biddeford, ME	25	0	52	0	52	0	49	0	44
Biddeford, ME	30	0	65	0	73	0	72	0	56
Biddeford, ME	35	0	65	0	73	0	72	0	66
Biddeford, ME	40	2	81	0	73	0	72	0	66
Biddeford, ME	45	3	82	3	80	0	72	2	80
Biddeford, ME	50	3	82	3	80	1	87	3	96
Biddeford, ME	55	6	91	3	80	3	87	3	96
Biddeford, ME	60	8	91	3	80	3	87	3	96
Biddeford, ME	100	10	99	3	80	3	87	3	96
Birmingham, AL	5	0	9	0	15	0	11	0	12
Birmingham, AL	10	0	26	0	27	0	28	0	25
Birmingham, AL	15	0	37	0	36	0	38	0	41
Birmingham, AL	20	0	53	0	50	0	47	0	50
Birmingham, AL	25	0	55	0	67	0	62	0	67
Birmingham, AL	30	0	71	0	69	0	70	0	72
Birmingham, AL	35	2	94	0	75	2	77	4	86
Birmingham, AL	40	6	94	6	87	4	85	13	88
Birmingham, AL	45	12	94	10	92	5	85	15	92

Birmingham, AL	50	19	97	12	95	5	85	15	92
Birmingham, AL	55	22	98	12	95	5	85	15	92
Birmingham, AL	60	26	108	12	95	5	85	15	92
Birmingham, AL	100	26	108	12	95	5	85	15	92
Boston, MA	5	0	20	0	16				
Boston, MA	10	0	30	0	32	0	31	0	30
Boston, MA	15	0	37	0	37	0	37	0	40
Boston, MA	20	0	45	0	43	0	40	0	40
Boston, MA	25	0	56	0	55	0	63	0	52
Boston, MA	30	0	74	0	59	0	63	0	59
Boston, MA	35	0	74	0	64	0	64	0	63
Boston, MA	40	3	84	0	71	0	70	0	70
Boston, MA	45	7	87	0	74	0	70	0	75
Boston, MA	50	11	87	5	90	1	81	2	81
Boston, MA	55	14	95	8	93	2	83	2	81
Boston, MA	60	17	102	8	93	3	83	3	83
Boston, MA	100	21	103	8	93	4	83	4	83
Buffalo, NY	5	0	8						
Buffalo, NY	10	0	20	0	18	0	16	0	18
Buffalo, NY	15	0	33	0	31	0	30	0	32
Buffalo, NY	20	0	44	0	43	0	39	0	42
Buffalo, NY	25	0	45	0	46	0	45	0	55
Buffalo, NY	30	0	57	0	56	0	54	0	55
Buffalo, NY	35	0	67	0	56	0	60	0	60
Buffalo, NY	40	1	78	0	64	0	67	0	62
Buffalo, NY	45	2	80	0	73	0	68	0	69
Buffalo, NY	50	4	82	1	76	0	68	0	72
Buffalo, NY	55	6	86	2	79	0	68	1	77
Buffalo, NY	60	11	86	3	79	0	72	1	77
Buffalo, NY	100	17	89	4	79	1	79	1	77
Cedar Rapids, IA	5	0	33	0	38	0	43	0	32

Cedar Rapids, IA	10	0	33	0	38	0	43	0	32
Cedar Rapids, IA	15	0	33	0	38	0	43	0	32
Cedar Rapids, IA	20	0	37	0	38	0	43	0	40
Cedar Rapids, IA	25	0	46	0	42	0	48	0	45
Cedar Rapids, IA	30	0	52	0	49	0	54	0	55
Cedar Rapids, IA	35	0	60	0	60	0	59	0	62
Cedar Rapids, IA	40	0	71	0	65	0	61	0	67
Cedar Rapids, IA	45	0	71	0	68	0	62	0	68
Cedar Rapids, IA	50	1	76	0	68	0	65	0	68
Cedar Rapids, IA	55	4	84	0	68	0	65	0	73
Cedar Rapids, IA	60	5	84	0	68	0	65	0	73
Cedar Rapids, IA	100	5	84	0	68	0	65	0	73
Charlotte, NC	5	0	10	0	13	0	8		
Charlotte, NC	10	0	29	0	26	0	28	0	26
Charlotte, NC	15	0	35	0	41	0	41	0	31
Charlotte, NC	20	0	44	0	48	0	48	0	48
Charlotte, NC	25	0	62	0	56	0	50	0	53
Charlotte, NC	30	0	71	0	66	0	69	0	72
Charlotte, NC	35	1	82	0	66	0	73	2	77
Charlotte,	40	8	94	3	95	2	80	7	78

NC									
Charlotte, NC	45	22	94	9	95	3	80	12	91
Charlotte, NC	50	26	94	20	101	3	80	12	91
Charlotte, NC	55	34	98	24	101	3	80	14	96
Charlotte, NC	60	35	127	24	101	3	80	14	96
Charlotte, NC	100	36	127	24	101	3	80	14	96
Chicago, IL	5	0	20	0	24	0	12		
Chicago, IL	10	0	29	0	28	0	31	0	33
Chicago, IL	15	0	40	0	35	0	46	0	40
Chicago, IL	20	0	52	0	52	0	50	0	46
Chicago, IL	25	0	63	0	57	0	65	0	58
Chicago, IL	30	0	68	0	72	0	65	0	61
Chicago, IL	35	1	78	2	82	0	70	1	81
Chicago, IL	40	6	101	2	82	4	107	4	82
Chicago, IL	45	12	108	2	82	6	107	10	82
Chicago, IL	50	18	108	2	82	6	107	13	89
Chicago, IL	55	21	108	2	82	6	107	14	89
Chicago, IL	60	22	108	2	82	6	107	14	89
Chicago, IL	100	22	108	2	82	6	107	14	89
Cincinnati, OH	5	0	18	0	13	0	19	0	27
Cincinnati, OH	10	0	26	0	28	0	28	0	27
Cincinnati, OH	15	0	46	0	41	0	40	0	31
Cincinnati, OH	20	0	50	0	53	0	46	0	41
Cincinnati, OH	25	0	55	0	60	0	57	0	55
Cincinnati, OH	30	0	62	0	67	0	68	0	66
Cincinnati, OH	35	2	80	1	78	1	76	2	79

Cincinnati, OH	40	8	84	7	93	2	79	13	94
Cincinnati, OH	45	30	93	11	93	7	80	18	94
Cincinnati, OH	50	45	104	16	93	8	80	19	94
Cincinnati, OH	55	49	104	16	93	8	80	19	94
Cincinnati, OH	60	49	104	16	93	8	80	19	94
Cincinnati, OH	100	49	104	16	93	8	80	19	94
Cleveland, OH	5	0	28	0	34	0	47	0	10
Cleveland, OH	10	0	28	0	34	0	47	0	24
Cleveland, OH	15	0	32	0	34	0	47	0	34
Cleveland, OH	20	0	42	0	43	0	47	0	39
Cleveland, OH	25	0	54	0	54	0	49	0	48
Cleveland, OH	30	0	71	0	57	0	56	0	62
Cleveland, OH	35	0	71	0	71	0	71	0	67
Cleveland, OH	40	0	75	0	71	0	72	1	80
Cleveland, OH	45	5	86	2	81	0	72	3	81
Cleveland, OH	50	9	87	7	88	2	88	10	90
Cleveland, OH	55	11	103	10	90	3	88	14	90
Cleveland, OH	60	12	103	11	90	3	88	14	90
Cleveland, OH	100	12	103	11	90	3	88	14	90

Colorado Springs, CO	5					0	7		
Colorado Springs, CO	10	0	16	0	33	0	16		
Colorado Springs, CO	15	0	41	0	50	0	39	0	36
Colorado Springs, CO	20	0	43	0	50	0	47	0	43
Colorado Springs, CO	25	0	49	0	50	0	47	0	44
Colorado Springs, CO	30	0	51	0	50	0	52	0	49
Colorado Springs, CO	35	0	60	0	56	0	56	0	58
Colorado Springs, CO	40	0	64	0	61	0	61	0	61
Colorado Springs, CO	45	0	72	0	66	0	71	0	69
Colorado Springs, CO	50	0	75	1	77	0	71	1	76
Colorado Springs, CO	55	0	75	1	77	0	71	2	86
Colorado Springs, CO	60	0	75	1	77	0	71	2	86
Colorado Springs, CO	100	1	79	2	80	0	71	2	86
Columbus, GA	5	0	53	0	31	0	10	0	27
Columbus, GA	10	0	53	0	31	0	17	0	27
Columbus, GA	15	0	53	0	33	0	30	0	30
Columbus, GA	20	0	53	0	46	0	41	0	37
Columbus, GA	25	0	53	0	63	0	58	0	43

Columbus, GA	30	0	66	0	63	0	58	0	57
Columbus, GA	35	0	66	0	69	0	67	0	67
Columbus, GA	40	1	80	0	73	0	74	0	73
Columbus, GA	45	5	87	0	73	0	74	1	79
Columbus, GA	50	6	87	0	74	0	74	1	79
Columbus, GA	55	8	89	1	79	0	74	1	79
Columbus, GA	60	8	89	1	79	0	74	1	79
Columbus, GA	100	8	89	1	79	0	74	1	79
Columbus, OH	5	0	35	0	35	0	41	0	38
Columbus, OH	10	0	35	0	35	0	41	0	38
Columbus, OH	15	0	38	0	35	0	41	0	38
Columbus, OH	20	0	40	0	41	0	41	0	44
Columbus, OH	25	0	56	0	48	0	54	0	53
Columbus, OH	30	0	68	0	65	0	56	0	60
Columbus, OH	35	0	69	0	68	0	69	0	68
Columbus, OH	40	4	80	1	83	0	74	2	78
Columbus, OH	45	14	94	5	85	0	74	2	78
Columbus, OH	50	25	94	8	95	0	74	6	88
Columbus, OH	55	27	94	9	95	1	79	6	88
Columbus,	60	29	94	9	95	1	79	6	88

OH									
Columbus, OH	100	29	94	9	95	1	79	6	88
Corpus Christi, TX	5	0	9	0	5	0	15	0	
Corpus Christi, TX	10	0	21	0	18	0	16	0	18
Corpus Christi, TX	15	0	36	0	30	0	31	0	30
Corpus Christi, TX	20	0	38	0	39	0	38	0	42
Corpus Christi, TX	25	0	52	0	47	0	53	0	47
Corpus Christi, TX	30	0	52	0	53	0	53	0	52
Corpus Christi, TX	35	0	59	0	61	0	57	0	66
Corpus Christi, TX	40	0	64	0	67	0	61	0	70
Corpus Christi, TX	45	0	70	1	79	0	68	0	73
Corpus Christi, TX	50	1	78	3	79	0	73	1	78
Corpus Christi, TX	55	1	78	3	79	0	73	1	78
Corpus Christi, TX	60	1	78	3	79	0	73	1	78
Corpus Christi, TX	100	1	78	3	79	0	73	2	78
Dallas/Ft Worth, TX	5	0	21	0	18	0	17		
Dallas/Ft Worth, TX	10	0	24	0	32	0	27		
Dallas/Ft Worth, TX	15	0	39	0	42	0	39	0	33
Dallas/Ft Worth, TX	20	0	49	0	46	0	47	0	43
Dallas/Ft Worth, TX	25	0	60	0	58	0	55	0	56

Dallas/Ft Worth, TX	30	1	78	0	63	0	65	0	68
Dallas/Ft Worth, TX	35	3	78	3	81	0	74	2	81
Dallas/Ft Worth, TX	40	11	87	12	84	2	84	9	94
Dallas/Ft Worth, TX	45	21	90	21	93	15	85	13	94
Dallas/Ft Worth, TX	50	26	106	28	93	30	100	18	94
Dallas/Ft Worth, TX	55	27	121	30	98	33	100	18	94
Dallas/Ft Worth, TX	60	27	121	30	98	33	100	18	94
Dallas/Ft Worth, TX	100	27	121	30	98	33	100	18	94
Dayton, OH	5	0	36	0	36	0	38	0	42
Dayton, OH	10	0	36	0	36	0	38	0	42
Dayton, OH	15	0	37	0	36	0	38	0	42
Dayton, OH	20	0	44	0	44	0	39	0	42
Dayton, OH	25	0	52	0	54	0	59	0	54
Dayton, OH	30	0	73	0	59	0	59	0	59
Dayton, OH	35	0	73	0	71	0	63	2	78
Dayton, OH	40	4	84	1	77	0	71	4	78
Dayton, OH	45	6	84	6	95	1	76	9	82
Dayton, OH	50	8	85	8	95	2	79	12	82
Dayton, OH	55	10	92	8	95	2	79	12	82
Dayton, OH	60	10	92	8	95	2	79	12	82
Dayton, OH	100	10	92	8	95	2	79	12	82
Denver, CO	5			0	29	0	15		
Denver, CO	10	0	36	0	41	0	46	0	42
Denver, CO	15	0	49	0	53	0	46	0	45
Denver, CO	20	0	49	0	53	0	46	0	49
Denver, CO	25	0	54	0	57	0	51	0	54
Denver, CO	30	0	64	0	57	0	56	0	56
Denver, CO	35	0	65	0	66	0	66	0	68
Denver, CO	40	1	76	1	76	0	71	2	80

Denver, CO	45	5	95	3	85	3	79	4	89
Denver, CO	50	15	98	8	85	7	86	8	89
Denver, CO	55	18	98	12	85	8	86	12	89
Denver, CO	60	18	98	13	95	8	86	12	89
Denver, CO	100	18	98	13	95	8	86	12	89
Des Moines, IA	5	0	21	0	39	0	43	0	38
Des Moines, IA	10	0	21	0	39	0	43	0	38
Des Moines, IA	15	0	38	0	39	0	43	0	38
Des Moines, IA	20	0	38	0	39	0	43	0	38
Des Moines, IA	25	0	44	0	47	0	47	0	46
Des Moines, IA	30	0	47	0	51	0	55	0	49
Des Moines, IA	35	0	54	0	53	0	55	0	61
Des Moines, IA	40	0	67	0	59	0	62	0	62
Des Moines, IA	45	0	67	0	62	0	62	0	66
Des Moines, IA	50	0	71	0	62	0	66	0	66
Des Moines, IA	55	0	74	0	62	0	66	0	66
Des Moines, IA	60	1	76	0	62	0	66	0	66
Des Moines, IA	100	1	76	0	62	0	66	0	66
Detroit, MI	5	0	11	0	27	0	32	0	12
Detroit, MI	10	0	23	0	27	0	32	0	27
Detroit, MI	15	0	24	0	31	0	32	0	35
Detroit, MI	20	0	42	0	48	0	48	0	42
Detroit, MI	25	0	53	0	61	0	60	0	54
Detroit, MI	30	0	65	0	63	0	73	0	69
Detroit, MI	35	0	67	1	84	1	77	0	73

Detroit, MI	40	1	79	2	84	1	77	0	75
Detroit, MI	45	9	100	4	84	2	95	6	82
Detroit, MI	50	15	100	6	84	3	95	12	89
Detroit, MI	55	18	100	7	84	3	95	12	89
Detroit, MI	60	21	100	7	84	3	95	12	89
Detroit, MI	100	21	100	7	84	3	95	12	89
El Paso, TX	5	0	21	0	18				
El Paso, TX	10	0	32	0	31	0	31	0	34
El Paso, TX	15	0	47	0	45	0	47	0	42
El Paso, TX	20	0	51	0	62	0	50	0	52
El Paso, TX	25	0	55	0	63	0	62	0	62
El Paso, TX	30	0	73	0	72	0	62	0	62
El Paso, TX	35	1	81	0	72	0	65	0	74
El Paso, TX	40	5	81	2	94	0	71	0	75
El Paso, TX	45	10	81	4	94	0	75	2	87
El Paso, TX	50	13	81	7	94	1	78	3	87
El Paso, TX	55	13	81	7	94	1	78	3	87
El Paso, TX	60	13	81	7	94	1	78	3	87
El Paso, TX	100	13	81	7	94	1	78	3	87
Evansville, IN	5	0	52	0	16	0	24	0	6
Evansville, IN	10	0	52	0	16	0	24	0	6
Evansville, IN	15	0	52	0	20	0	35	0	26
Evansville, IN	20	0	52	0	40	0	41	0	39
Evansville, IN	25	0	52	0	51	0	55	0	52
Evansville, IN	30	0	61	0	61	0	62	0	63
Evansville, IN	35	0	71	0	68	0	70	1	77
Evansville, IN	40	2	79	2	83	0	73	2	77
Evansville, IN	45	9	88	3	83	1	76	5	77

Evansville, IN	50	22	89	4	83	1	76	5	77
Evansville, IN	55	29	91	4	83	1	76	5	77
Evansville, IN	60	30	91	4	83	1	76	5	77
Evansville, IN	100	30	91	4	83	1	76	5	77
Fresno, CA	5	0	13	0	15	0	18	0	17
Fresno, CA	10	0	33	0	28	0	33	0	30
Fresno, CA	15	0	43	0	42	0	42	0	40
Fresno, CA	20	0	65	0	48	0	44	0	49
Fresno, CA	25	0	65	0	57	0	64	0	60
Fresno, CA	30	0	66	0	70	0	67	0	65
Fresno, CA	35	0	69	0	74	0	69	0	73
Fresno, CA	40	0	75	9	84	0	75	2	86
Fresno, CA	45	8	79	25	94	11	91	7	86
Fresno, CA	50	25	92	38	97	27	99	24	98
Fresno, CA	55	40	101	52	104	46	105	36	105
Fresno, CA	60	40	101	58	132	54	105	45	114
Fresno, CA	100	40	101	67	132	54	105	46	114
Ft. Wayne, IN	5	0	27	0	38	0	31	0	39
Ft. Wayne, IN	10	0	27	0	38	0	31	0	39
Ft. Wayne, IN	15	0	27	0	38	0	31	0	39
Ft. Wayne, IN	20	0	39	0	44	0	37	0	51
Ft. Wayne, IN	25	0	59	0	59	0	48	0	51
Ft. Wayne, IN	30	0	65	0	59	0	58	0	61
Ft. Wayne, IN	35	0	65	0	61	0	62	0	63
Ft. Wayne, IN	40	0	74	0	67	0	62	0	69
Ft. Wayne,	45	1	79	0	69	0	69	0	69

IN									
Ft. Wayne, IN	50	4	82	0	72	0	69	1	76
Ft. Wayne, IN	55	6	82	0	74	0	71	1	76
Ft. Wayne, IN	60	8	86	0	74	0	71	1	76
Ft. Wayne, IN	100	8	86	0	74	0	71	1	76
Grand Rapids, MI	5	0	23	0	31	0	36		
Grand Rapids, MI	10	0	23	0	31	0	36	0	23
Grand Rapids, MI	15	0	23	0	31	0	36	0	30
Grand Rapids, MI	20	0	39	0	36	0	36	0	45
Grand Rapids, MI	25	0	44	0	50	0	48	0	49
Grand Rapids, MI	30	0	55	0	55	0	58	0	54
Grand Rapids, MI	35	0	60	0	60	0	62	0	58
Grand Rapids, MI	40	0	75	0	64	0	63	0	62
Grand Rapids, MI	45	0	75	0	72	0	71	0	72
Grand Rapids, MI	50	2	82	0	72	0	74	1	76
Grand Rapids, MI	55	5	90	1	83	0	74	1	76
Grand Rapids, MI	60	9	90	1	83	0	74	1	76
Grand Rapids, MI	100	12	91	1	83	1	82	1	76
Greensboro, NC	5	0	29	0	9	0	41	0	42
Greensboro, NC	10	0	29	0	9	0	41	0	42

Greensboro, NC	15	0	29	0	26	0	41	0	42
Greensboro, NC	20	0	42	0	35	0	41	0	42
Greensboro, NC	25	0	45	0	61	0	50	0	42
Greensboro, NC	30	0	61	0	61	0	54	0	59
Greensboro, NC	35	0	62	0	62	0	62	0	60
Greensboro, NC	40	1	76	0	66	0	70	1	76
Greensboro, NC	45	3	80	1	76	0	73	1	76
Greensboro, NC	50	10	84	3	76	0	75	2	80
Greensboro, NC	55	21	103	5	88	0	75	4	87
Greensboro, NC	60	25	103	9	90	0	75	5	87
Greensboro, NC	100	26	103	10	90	0	75	7	88
Honolulu, HI	5	0	11	0	9	0	12	0	11
Honolulu, HI	10	0	21	0	21	0	20	0	18
Honolulu, HI	15	0	29	0	31	0	28	0	31
Honolulu, HI	20	0	33	0	40	0	39	0	36
Honolulu, HI	25	0	34	0	41	0	46	0	43
Honolulu, HI	30	0	36	0	50	0	46	0	43
Honolulu, HI	35	0	36	0	50	0	46	0	46
Honolulu, HI	40	0	36	0	50	0	46	0	46
Honolulu, HI	45	0	36	0	50	0	48	0	52
Honolulu, HI	50	0	36	0	50	0	49	0	52
Honolulu, HI	55	0	36	0	50	0	49	0	52
Honolulu, HI	60	0	36	0	50	0	49	0	52
Honolulu, HI	100	0	36	0	50	0	49	0	52
Houston, TX	5	0	23	0	13	0	22		
Houston,	10	0	33	0	44	0	33	0	31

TX									
Houston, TX	15	0	53	0	48	0	46	0	53
Houston, TX	20	2	81	0	66	1	76	0	66
Houston, TX	25	3	81	0	73	2	81	0	71
Houston, TX	30	5	81	10	106	9	101	5	92
Houston, TX	35	15	97	19	106	12	101	11	92
Houston, TX	40	29	105	25	106	17	101	21	94
Houston, TX	45	37	105	27	106	22	103	29	97
Houston, TX	50	41	105	28	106	24	103	31	97
Houston, TX	55	41	105	28	106	26	110	31	97
Houston, TX	60	41	105	28	106	26	110	31	97
Houston, TX	100	41	105	28	106	26	110	31	97
Huntsville, AL	5	0		0	17	0	20	0	20
Huntsville, AL	10	0	22	0	28	0	20	0	20
Huntsville, AL	15	0	35	0	37	0	37	0	20
Huntsville, AL	20	0	44	0	51	0	44	0	49
Huntsville, AL	25	0	57	0	53	0	49	0	54
Huntsville, AL	30	0	71	0	62	0	58	0	68
Huntsville, AL	35	0	71	0	68	0	58	0	70
Huntsville, AL	40	0	75	0	68	0	63	0	72

Huntsville, AL	45	0	75	0	71	0	68	0	72
Huntsville, AL	50	3	85	2	84	1	77	1	81
Huntsville, AL	55	7	90	2	84	1	77	1	81
Huntsville, AL	60	8	90	2	84	1	77	1	81
Huntsville, AL	100	11	98	2	84	1	77	1	81
Indianapolis, IN	5	0	41	0	44	0	39	0	18
Indianapolis, IN	10	0	41	0	44	0	39	0	26
Indianapolis, IN	15	0	41	0	44	0	39	0	34
Indianapolis, IN	20	0	41	0	45	0	42	0	50
Indianapolis, IN	25	0	50	0	50	0	55	0	52
Indianapolis, IN	30	0	64	0	63	0	63	0	68
Indianapolis, IN	35	0	69	1	76	0	66	0	75
Indianapolis, IN	40	4	81	1	76	2	86	2	83
Indianapolis, IN	45	16	95	3	87	5	86	3	83
Indianapolis, IN	50	25	95	5	87	6	86	3	83
Indianapolis, IN	55	30	95	5	87	6	86	3	83
Indianapolis, IN	60	33	95	5	87	6	86	3	83
Indianapolis, IN	100	34	95	5	87	6	86	3	83
Jackson, MS	5	0	30	0		0	22	0	32
Jackson,	10	0	30	0	15	0	22	0	32

MS									
Jackson, MS	15	0	32	0	31	0	35	0	32
Jackson, MS	20	0	47	0	54	0	42	0	48
Jackson, MS	25	0	53	0	54	0	56	0	58
Jackson, MS	30	0	65	0	58	0	57	0	73
Jackson, MS	35	0	70	0	70	0	60	0	73
Jackson, MS	40	0	73	0	70	0	61	0	73
Jackson, MS	45	0	73	0	70	0	64	0	73
Jackson, MS	50	0	75	0	71	1	76	0	73
Jackson, MS	55	0	75	0	72	1	76	0	73
Jackson, MS	60	0	75	0	72	1	76	0	73
Jackson, MS	100	0	75	0	72	1	76	0	73
Jacksonville, FL	5								
Jacksonville, FL	10			0	22	0	23	0	24
Jacksonville, FL	15	0	40	0	41	0	39	0	53
Jacksonville, FL	20	0	50	0	46	0	45	0	53
Jacksonville, FL	25	0	60	0	62	0	52	0	62
Jacksonville, FL	30	0	62	0	62	0	64	0	65
Jacksonville, FL	35	2	81	0	72	0	64	0	69
Jacksonville, FL	40	2	81	0	72	0	75	0	75

Jacksonville, FL	45	5	81	0	75	1	81	0	75
Jacksonville, FL	50	6	87	0	75	1	81	1	84
Jacksonville, FL	55	8	91	0	75	1	81	1	84
Jacksonville, FL	60	8	91	0	75	1	81	1	84
Jacksonville, FL	100	8	91	0	75	1	81	1	84
Johnstown, PA	5	0	26	0	4	0	38	0	14
Johnstown, PA	10	0	26	0	28	0	38	0	22
Johnstown, PA	15	0	32	0	35	0	38	0	37
Johnstown, PA	20	0	46	0	46	0	41	0	46
Johnstown, PA	25	0	54	0	52	0	51	0	51
Johnstown, PA	30	0	64	0	59	0	61	0	59
Johnstown, PA	35	0	67	0	70	0	61	0	63
Johnstown, PA	40	0	72	0	72	0	65	0	73
Johnstown, PA	45	1	77	0	72	0	68	0	73
Johnstown, PA	50	2	79	0	72	0	68	1	79
Johnstown, PA	55	2	79	0	72	0	68	2	85
Johnstown, PA	60	2	79	0	72	0	68	2	85
Johnstown, PA	100	2	79	0	72	0	68	2	85
Kansas City, MO	5			0	9				
Kansas	10	0	32	0	26	0	30	0	26

City, MO									
Kansas City, MO	15	0	42	0	47	0	38	0	37
Kansas City, MO	20	0	46	0	47	0	43	0	40
Kansas City, MO	25	0	48	0	51	0	49	0	55
Kansas City, MO	30	0	61	0	67	0	55	0	62
Kansas City, MO	35	0	73	0	68	0	72	0	74
Kansas City, MO	40	3	83	1	78	2	78	2	76
Kansas City, MO	45	9	99	2	79	4	79	4	84
Kansas City, MO	50	15	99	3	79	5	87	5	84
Kansas City, MO	55	19	99	3	79	6	87	6	84
Kansas City, MO	60	20	99	3	79	6	87	6	84
Kansas City, MO	100	20	99	3	79	6	87	6	84
Kingston, NY	5			0					
Kingston, NY	10	0	14	0					
Kingston, NY	15	0	33	0	29	0	31		
Kingston, NY	20	0	33	0	37	0	33	0	39
Kingston, NY	25	0	39	0	42	0	44	0	39
Kingston, NY	30	0	47	0	50	0	52	0	52
Kingston, NY	35	0	57	0	59	0	52	0	58
Kingston, NY	40	0	67	0	62	0	57	0	61

Kingston, NY	45	0	67	0	68	0	57	0	70
Kingston, NY	50	0	72	0	73	0	62	0	70
Kingston, NY	55	1	76	0	73	0	69	0	70
Kingston, NY	60	2	82	0	73	0	69	0	75
Kingston, NY	100	2	82	1	84	0	73	0	75
Knoxville, TN	5								
Knoxville, TN	10			0	23	0	30		
Knoxville, TN	15	0	25	0	31	0	45	0	35
Knoxville, TN	20	0	51	0	54	0	55	0	46
Knoxville, TN	25	0	60	0	55	0	56	0	61
Knoxville, TN	30	0	64	0	63	0	65	0	70
Knoxville, TN	35	0	70	0	75	0	71	2	79
Knoxville, TN	40	8	85	3	86	2	79	6	81
Knoxville, TN	45	29	96	8	86	3	84	11	83
Knoxville, TN	50	45	96	15	95	3	84	16	84
Knoxville, TN	55	50	119	17	95	3	84	16	84
Knoxville, TN	60	51	119	17	95	3	84	16	84
Knoxville, TN	100	51	119	18	95	3	84	16	84
Lafayette, LA	5	0	16	0	8	0	15	0	
Lafayette,	10	0	21	0	20	0	21	0	11

LA									
Lafayette, LA	15	0	37	0	35	0	40	0	36
Lafayette, LA	20	0	50	0	42	0	45	0	44
Lafayette, LA	25	0	53	0	56	0	56	0	50
Lafayette, LA	30	0	62	0	63	0	60	0	57
Lafayette, LA	35	0	66	0	66	0	66	0	69
Lafayette, LA	40	0	70	0	67	0	66	0	69
Lafayette, LA	45	0	73	1	76	0	70	1	78
Lafayette, LA	50	3	77	2	80	2	84	1	78
Lafayette, LA	55	4	77	3	84	2	84	1	78
Lafayette, LA	60	4	77	3	84	2	84	2	79
Lafayette, LA	100	4	77	3	84	2	84	2	79
Lake Charles, LA	5	0	14	0	3	0	19		
Lake Charles, LA	10	0	22	0	20	0	22		
Lake Charles, LA	15	0	33	0	35	0	38	0	31
Lake Charles, LA	20	0	45	0	57	0	50	0	42
Lake Charles, LA	25	0	58	0	60	0	62	0	52
Lake Charles, LA	30	0	72	0	73	0	62	0	64
Lake Charles, LA	35	1	78	0	73	0	67	0	65
Lake Charles, LA	40	2	78	1	76	4	96	1	76

Lake Charles, LA	45	4	81	2	76	8	96	3	80
Lake Charles, LA	50	5	81	2	76	8	96	3	80
Lake Charles, LA	55	5	81	2	76	8	96	5	84
Lake Charles, LA	60	5	81	2	76	8	96	5	84
Lake Charles, LA	100	5	81	2	76	8	96	5	84
Las Vegas, NV	5			0	29				
Las Vegas, NV	10	0	41	0	39	0	40	0	21
Las Vegas, NV	15	0	44	0	44	0	40	0	37
Las Vegas, NV	20	0	46	0	47	0	45	0	49
Las Vegas, NV	25	0	49	0	53	0	55	0	49
Las Vegas, NV	30	0	63	0	58	0	59	0	54
Las Vegas, NV	35	0	64	0	65	0	67	0	59
Las Vegas, NV	40	0	75	0	71	0	73	0	72
Las Vegas, NV	45	5	86	2	80	0	73	2	81
Las Vegas, NV	50	11	90	7	83	3	81	3	83
Las Vegas, NV	55	18	90	10	83	5	81	7	84
Las Vegas, NV	60	21	90	10	83	5	81	9	84
Las Vegas, NV	100	23	90	10	83	5	81	9	84
Lexington, KY	5	0	36	0	29	0	20	0	21
Lexington,	10	0	36	0	29	0	20	0	21

KY									
Lexington, KY	15	0	36	0	33	0	28	0	23
Lexington, KY	20	0	44	0	42	0	45	0	42
Lexington, KY	25	0	48	0	45	0	46	0	55
Lexington, KY	30	0	53	0	54	0	54	0	61
Lexington, KY	35	0	60	0	64	0	56	0	61
Lexington, KY	40	1	80	0	67	0	66	0	69
Lexington, KY	45	6	80	1	78	0	67	0	72
Lexington, KY	50	11	88	1	78	0	68	0	75
Lexington, KY	55	16	88	1	78	0	68	0	75
Lexington, KY	60	17	88	1	78	0	68	0	75
Lexington, KY	100	17	88	1	78	0	68	0	75
Lincoln, NE	5	0	28	0	37	0	33	0	12
Lincoln, NE	10	0	28	0	37	0	33	0	19
Lincoln, NE	15	0	28	0	37	0	35	0	31
Lincoln, NE	20	0	34	0	37	0	40	0	35
Lincoln, NE	25	0	42	0	39	0	46	0	45
Lincoln, NE	30	0	42	0	44	0	50	0	45
Lincoln, NE	35	0	53	0	51	0	51	0	47
Lincoln, NE	40	0	53	0	52	0	53	0	48
Lincoln, NE	45	0	54	0	61	0	61	0	52
Lincoln, NE	50	0	59	0	61	0	61	0	59
Lincoln, NE	55	0	61	0	61	0	61	0	59
Lincoln, NE	60	0	61	0	61	0	61	0	59
Lincoln, NE	100	0	61	0	61	0	61	0	59
Little Rock, AR	5	0	17	0	13	0	12		

Little Rock, AR	10	0	26	0	24	0	18	0	22
Little Rock, AR	15	0	31	0	31	0	32	0	35
Little Rock, AR	20	0	45	0	45	0	42	0	41
Little Rock, AR	25	0	48	0	53	0	51	0	48
Little Rock, AR	30	0	55	0	63	0	63	0	58
Little Rock, AR	35	0	65	0	63	0	66	0	70
Little Rock, AR	40	0	75	0	65	0	74	0	72
Little Rock, AR	45	4	89	2	84	1	77	0	75
Little Rock, AR	50	7	89	2	84	2	85	2	80
Little Rock, AR	55	9	89	2	84	2	85	2	80
Little Rock, AR	60	10	89	2	84	2	85	2	80
Little Rock, AR	100	11	89	2	84	2	85	2	80
Los Angeles, CA	5	0	28						
Los Angeles, CA	10	0	43	0	43	0	41	0	36
Los Angeles, CA	15	0	51	0	49	0	60	0	45
Los Angeles, CA	20	0	59	0	59	0	60	1	80
Los Angeles, CA	25	2	78	1	85	0	68	2	84

Los Angeles, CA	30	13	93	11	86	6	102	18	87
Los Angeles, CA	35	38	110	28	101	38	102	42	99
Los Angeles, CA	40	55	110	55	110	67	122	67	105
Los Angeles, CA	45	70	117	72	131	81	122	69	105
Los Angeles, CA	50	76	117	78	131	90	122	70	105
Los Angeles, CA	55	77	117	79	131	90	122	70	105
Los Angeles, CA	60	78	117	79	131	90	122	70	105
Los Angeles, CA	100	78	117	79	131	90	122	70	105
Louisville, KY	5	0	38	0	32	0	26	0	14
Louisville, KY	10	0	38	0	32	0	26	0	24
Louisville, KY	15	0	45	0	41	0	37	0	42
Louisville, KY	20	0	52	0	43	0	46	0	43
Louisville, KY	25	0	54	0	56	0	59	0	57
Louisville, KY	30	0	74	0	69	0	64	0	65
Louisville, KY	35	1	77	0	75	2	80	2	81
Louisville, KY	40	15	95	5	89	4	85	10	90

Louisville, KY	45	30	98	9	91	5	85	18	96
Louisville, KY	50	35	98	9	91	5	85	19	96
Louisville, KY	55	36	98	9	91	5	85	19	96
Louisville, KY	60	36	98	9	91	5	85	19	96
Louisville, KY	100	36	98	9	91	5	85	19	96
Madison, WI	5	0	15	0	26	0		0	
Madison, WI	10	0	16	0	26	0	14	0	
Madison, WI	15	0	29	0	37	0	32	0	27
Madison, WI	20	0	33	0	39	0	34	0	36
Madison, WI	25	0	42	0	47	0	49	0	49
Madison, WI	30	0	52	0	50	0	51	0	49
Madison, WI	35	0	57	0	60	0	57	0	59
Madison, WI	40	0	61	0	67	0	63	0	59
Madison, WI	45	0	70	0	70	0	64	0	67
Madison, WI	50	1	77	0	70	0	65	0	67
Madison, WI	55	3	85	0	70	0	66	0	70
Madison, WI	60	6	86	0	70	0	66	0	70
Madison, WI	100	6	86	0	70	0	66	0	70
Memphis, TN	5	0	8	0	20	0	7	0	10
Memphis,	10	0	24	0	23	0	25	0	28

TN									
Memphis, TN	15	0	41	0	38	0	35	0	39
Memphis, TN	20	0	43	0	52	0	46	0	43
Memphis, TN	25	0	55	0	53	0	52	0	52
Memphis, TN	30	0	66	0	62	0	66	0	59
Memphis, TN	35	0	75	0	73	0	71	0	70
Memphis, TN	40	0	75	0	75	1	83	4	82
Memphis, TN	45	10	83	4	86	2	83	9	84
Memphis, TN	50	18	90	9	94	4	83	10	91
Memphis, TN	55	24	108	9	94	4	83	12	91
Memphis, TN	60	30	108	10	101	4	83	12	91
Memphis, TN	100	32	108	10	101	4	83	13	91
Miami, FL	10	0	26			0	24	0	28
Miami, FL	15	0	36	0	35	0	42	0	41
Miami, FL	20	0	63	0	48	0	48	0	53
Miami, FL	25	0	63	0	48	0	52	0	56
Miami, FL	30	0	69	0	60	0	62	0	65
Miami, FL	35	0	69	0	60	0	70	0	70
Miami, FL	40	1	76	0	68	0	70	1	85
Miami, FL	45	1	76	1	77	1	76	2	85
Miami, FL	50	1	76	1	77	1	76	2	85
Miami, FL	55	2	78	4	93	1	76	2	85
Miami, FL	60	2	78	4	93	1	76	2	85
Miami, FL	100	2	78	4	93	1	76	2	85
Milwaukee, WI	5	0	20	0	12	0	9	0	2
Milwaukee,	10	0	25	0	24	0	28	0	27

WI									
Milwaukee, WI	15	0	33	0	31	0	31	0	35
Milwaukee, WI	20	0	41	0	38	0	49	0	43
Milwaukee, WI	25	0	53	0	47	0	49	0	47
Milwaukee, WI	30	0	58	0	57	0	58	0	58
Milwaukee, WI	35	0	64	0	67	0	69	0	61
Milwaukee, WI	40	0	75	0	68	0	71	0	73
Milwaukee, WI	45	1	82	0	70	0	71	0	75
Milwaukee, WI	50	8	91	0	71	0	73	3	83
Milwaukee, WI	55	12	92	0	71	2	94	6	92
Milwaukee, WI	60	12	92	0	71	2	94	6	92
Milwaukee, WI	100	12	92	0	71	2	94	6	92
Mobile, AL	5	0	32	0	6	0	18	0	4
Mobile, AL	10	0	32	0	30	0	20	0	9
Mobile, AL	15	0	36	0	35	0	36	0	36
Mobile, AL	20	0	48	0	45	0	48	0	61
Mobile, AL	25	0	52	0	52	0	54	0	62
Mobile, AL	30	0	63	0	66	0	58	0	65
Mobile, AL	35	1	79	0	67	0	63	0	75
Mobile, AL	40	3	79	0	72	0	74	0	75
Mobile, AL	45	6	82	3	85	1	76	2	80
Mobile, AL	50	8	82	4	85	2	80	2	80
Mobile, AL	55	11	91	4	85	2	80	4	82
Mobile, AL	60	11	91	4	85	2	80	4	82
Mobile, AL	100	11	91	4	85	2	80	4	82
Modesto, CA	5	0	16	0	26	0	19	0	16

Modesto, CA	10	0	29	0	30	0	33	0	28
Modesto, CA	15	0	37	0	40	0	45	0	38
Modesto, CA	20	0	43	0	54	0	46	0	47
Modesto, CA	25	0	54	0	64	0	54	0	52
Modesto, CA	30	0	64	0	69	0	70	0	66
Modesto, CA	35	0	66	1	80	0	70	0	68
Modesto, CA	40	0	75	3	91	1	88	1	82
Modesto, CA	45	3	76	11	91	7	88	7	89
Modesto, CA	50	5	88	20	91	15	89	8	89
Modesto, CA	55	5	88	23	99	18	102	10	96
Modesto, CA	60	5	88	25	106	18	102	11	96
Modesto, CA	100	5	88	30	130	18	102	11	96
Muskegon, MI	5	0	25	0	33	0	38	0	47
Muskegon, MI	10	0	25	0	33	0	38	0	47
Muskegon, MI	15	0	31	0	33	0	38	0	47
Muskegon, MI	20	0	44	0	47	0	41	0	47
Muskegon, MI	25	0	49	0	50	0	51	0	47
Muskegon, MI	30	0	57	0	60	0	61	0	57
Muskegon, MI	35	0	66	0	72	0	61	0	61
Muskegon,	40	2	76	0	72	0	67	0	74

MI									
Muskegon, MI	45	3	78	0	72	0	74	0	74
Muskegon, MI	50	8	89	1	80	0	75	2	77
Muskegon, MI	55	8	89	1	80	0	75	2	77
Muskegon, MI	60	11	93	2	99	0	75	2	77
Muskegon, MI	100	15	93	2	99	2	88	4	79
Nashville, TN	5	0	60	0	34	0	22	0	27
Nashville, TN	10	0	60	0	34	0	24	0	27
Nashville, TN	15	0	60	0	34	0	37	0	27
Nashville, TN	20	0	60	0	40	0	48	0	41
Nashville, TN	25	0	60	0	58	0	59	0	58
Nashville, TN	30	0	69	0	62	0	61	0	71
Nashville, TN	35	1	76	1	81	0	69	1	84
Nashville, TN	40	3	82	4	81	1	82	4	84
Nashville, TN	45	13	86	10	90	1	82	8	88
Nashville, TN	50	27	98	10	90	1	82	10	88
Nashville, TN	55	33	98	11	90	1	82	10	88
Nashville, TN	60	36	104	11	90	1	82	10	88
Nashville, TN	100	36	104	11	90	1	82	10	88
New Orleans, LA	5	0	17	0	13				

New Orleans, LA	10	0	25	0	20	0	24	0	15
New Orleans, LA	15	0	36	0	40	0	36	0	36
New Orleans, LA	20	0	49	0	57	0	49	0	49
New Orleans, LA	25	0	58	0	64	0	60	0	63
New Orleans, LA	30	0	64	1	79	0	65	0	66
New Orleans, LA	35	1	77	1	79	0	74	0	74
New Orleans, LA	40	2	92	2	79	2	80	1	79
New Orleans, LA	45	5	92	3	83	3	80	4	79
New Orleans, LA	50	11	97	5	85	4	85	7	87
New Orleans, LA	55	16	97	5	85	5	89	8	93
New Orleans, LA	60	16	97	5	85	5	89	8	93
New Orleans, LA	100	16	97	5	85	5	89	8	93
New York City, NY	5	0	32	0	21	0	17	0	24
New York City, NY	10	0	49	0	40	0	41	0	33
New York City, NY	15	0	49	0	46	0	50	0	43
New York City, NY	20	0	66	0	53	0	64	0	49
New York City, NY	25	0	68	0	58	0	64	0	57
New York City, NY	30	0	75	0	69	0	64	1	81
New York City, NY	35	3	88	1	86	1	82	1	81
New York	40	12	93	8	88	4	82	2	81

City, NY									
New York City, NY	45	19	101	19	95	9	85	19	95
New York City, NY	50	32	102	25	101	11	86	26	95
New York City, NY	55	35	102	30	101	12	86	32	113
New York City, NY	60	38	102	30	101	12	86	33	113
New York City, NY	100	38	102	30	101	12	86	33	113
Oakland, CA	5	0	26	0	37	0	19	0	19
Oakland, CA	10	0	36	0	37	0	37	0	34
Oakland, CA	15	0	39	0	51	0	52	0	44
Oakland, CA	20	0	52	0	64	0	69	0	62
Oakland, CA	25	0	74	1	91	0	71	1	78
Oakland, CA	30	1	91	6	91	2	81	2	79
Oakland, CA	35	2	91	8	91	4	82	4	97
Oakland, CA	40	2	91	9	110	6	94	4	97
Oakland, CA	45	2	91	10	110	6	94	4	97
Oakland, CA	50	2	91	10	110	6	94	4	97
Oakland, CA	55	2	91	10	110	6	94	4	97
Oakland, CA	60	2	91	10	110	6	94	4	97
Oakland, CA	100	2	91	10	110	6	94	4	97
Oklahoma City, OK	5	0	29	0	24	0	23	0	12

Oklahoma City, OK	10	0	29	0	29	0	23	0	16
Oklahoma City, OK	15	0	33	0	29	0	28	0	29
Oklahoma City, OK	20	0	42	0	39	0	39	0	38
Oklahoma City, OK	25	0	53	0	49	0	43	0	50
Oklahoma City, OK	30	0	59	0	61	0	52	0	61
Oklahoma City, OK	35	0	62	0	65	0	65	0	74
Oklahoma City, OK	40	0	69	1	81	0	69	0	74
Oklahoma City, OK	45	3	89	3	81	1	77	0	74
Oklahoma City, OK	50	3	89	3	81	2	77	1	76
Oklahoma City, OK	55	4	89	4	84	4	77	3	79
Oklahoma City, OK	60	5	89	5	84	5	77	3	79
Oklahoma City, OK	100	5	89	5	84	5	77	3	79
Omaha, NE	5	0	27	0	34	0	44	0	30
Omaha, NE	10	0	27	0	34	0	44	0	30
Omaha, NE	15	0	34	0	34	0	44	0	30
Omaha, NE	20	0	44	0	47	0	44	0	44
Omaha, NE	25	0	50	0	54	0	52	0	58
Omaha, NE	30	0	55	0	66	0	60	0	58
Omaha, NE	35	0	66	0	66	0	60	0	63
Omaha, NE	40	0	69	0	66	0	64	0	69
Omaha, NE	45	0	71	0	66	0	71	0	69
Omaha, NE	50	1	85	0	66	0	71	0	72
Omaha, NE	55	1	85	0	68	0	71	0	72
Omaha, NE	60	1	85	0	68	0	71	1	77
Omaha, NE	100	1	85	0	68	0	71	1	77
Orlando, FL	5								

Orlando, FL	10	0	19	0	20	0	21	0	23
Orlando, FL	15	0	39	0	41	0	39	0	36
Orlando, FL	20	0	46	0	47	0	48	0	47
Orlando, FL	25	0	56	0	58	0	61	0	72
Orlando, FL	30	0	62	0	63	0	61	0	72
Orlando, FL	35	2	78	0	65	0	65	0	72
Orlando, FL	40	5	82	0	65	0	66	1	80
Orlando, FL	45	8	83	0	68	0	66	1	80
Orlando, FL	50	10	87	1	76	1	76	2	81
Orlando, FL	55	10	87	1	76	1	76	2	81
Orlando, FL	60	10	87	2	84	1	76	2	81
Orlando, FL	100	10	87	2	84	1	76	2	81
Philadelphia, PA	5	0	22	0	28	0	20		
Philadelphia, PA	10	0	40	0	40	0	33	0	35
Philadelphia, PA	15	0	43	0	41	0	39	0	39
Philadelphia, PA	20	0	52	0	49	0	53	0	48
Philadelphia, PA	25	0	58	0	53	0	53	0	54
Philadelphia, PA	30	0	68	0	68	0	68	0	62
Philadelphia, PA	35	3	83	0	72	0	71	0	75
Philadelphia, PA	40	6	83	2	87	1	84	0	75
Philadelphia, PA	45	19	93	10	89	4	84	9	86
Philadelphia, PA	50	32	119	23	102	5	84	21	90
Philadelphia, PA	55	41	119	25	102	5	84	27	101
Philadelphia, PA	60	41	119	27	107	5	84	30	101
Philadelphia, PA	100	43	125	27	107	5	84	30	101

Phoenix, AZ	5								
Phoenix, AZ	10	0	31			0	26	0	29
Phoenix, AZ	15	0	46	0	42	0	43	0	47
Phoenix, AZ	20	0	46	0	48	0	45	0	48
Phoenix, AZ	25	0	55	0	51	0	53	0	50
Phoenix, AZ	30	0	69	0	70	0	57	0	60
Phoenix, AZ	35	0	74	0	70	0	65	0	71
Phoenix, AZ	40	5	79	2	79	2	79	2	79
Phoenix, AZ	45	12	83	10	83	4	79	5	79
Phoenix, AZ	50	19	83	21	85	5	82	9	85
Phoenix, AZ	55	22	85	26	85	5	82	9	85
Phoenix, AZ	60	22	85	26	85	5	82	10	85
Phoenix, AZ	100	22	85	26	85	5	82	10	85
Pittsburgh, PA	5	0	16	0	16	0	12	0	5
Pittsburgh, PA	10	0	30	0	30	0	31	0	36
Pittsburgh, PA	15	0	41	0	39	0	38	0	36
Pittsburgh, PA	20	0	49	0	49	0	46	0	50
Pittsburgh, PA	25	0	69	0	58	0	65	0	57
Pittsburgh, PA	30	0	69	0	71	0	70	0	69
Pittsburgh, PA	35	4	83	2	78	1	76	2	89
Pittsburgh, PA	40	13	93	9	91	2	76	8	92
Pittsburgh, PA	45	21	100	15	91	6	84	12	105
Pittsburgh, PA	50	26	100	15	91	6	84	13	105
Pittsburgh, PA	55	27	100	15	91	6	84	13	105
Pittsburgh, PA	60	27	100	15	91	6	84	13	105
Pittsburgh,	100	27	100	15	91	6	84	13	105

PA									
Portland, OR	5	0	34	0	27	0	26	0	19
Portland, OR	10	0	34	0	27	0	28	0	28
Portland, OR	15	0	34	0	33	0	34	0	37
Portland, OR	20	0	41	0	39	0	45	0	42
Portland, OR	25	0	52	0	53	0	53	0	53
Portland, OR	30	0	67	0	63	0	67	0	66
Portland, OR	35	0	72	1	77	0	71	0	67
Portland, OR	40	0	72	2	84	1	80	1	94
Portland, OR	45	0	72	3	84	2	80	1	94
Portland, OR	50	0	72	3	84	2	80	1	94
Portland, OR	55	0	72	3	84	2	80	1	94
Portland, OR	60	0	72	3	84	2	80	1	94
Portland, OR	100	0	72	3	84	2	80	1	94
Providence, RI	5	0	38	0	46	0	33	0	34
Providence, RI	10	0	38	0	46	0	33	0	34
Providence, RI	15	0	38	0	46	0	33	0	34
Providence, RI	20	0	38	0	46	0	34	0	34
Providence, RI	25	0	50	0	52	0	48	0	44
Providence, RI	30	0	68	0	52	0	59	0	54

Providence, RI	35	0	72	0	65	0	61	0	60
Providence, RI	40	2	81	0	67	0	71	0	67
Providence, RI	45	3	81	0	74	0	71	0	72
Providence, RI	50	5	81	2	85	0	75	4	80
Providence, RI	55	14	92	4	86	2	78	5	80
Providence, RI	60	17	92	5	88	2	78	7	86
Providence, RI	100	18	100	6	89	2	78	7	86
Raleigh, NC	5			0	12	0	26	0	10
Raleigh, NC	10	0	24	0	22	0	26	0	24
Raleigh, NC	15	0	37	0	36	0	34	0	32
Raleigh, NC	20	0	43	0	44	0	43	0	50
Raleigh, NC	25	0	54	0	49	0	53	0	55
Raleigh, NC	30	0	63	0	60	0	59	0	68
Raleigh, NC	35	0	71	0	67	0	68	0	69
Raleigh, NC	40	0	72	1	77	0	74	0	73
Raleigh, NC	45	11	84	3	83	0	74	1	83
Raleigh, NC	50	17	92	5	83	0	74	2	83
Raleigh, NC	55	21	92	9	85	0	74	3	83
Raleigh, NC	60	23	92	10	85	0	74	3	83
Raleigh, NC	100	24	92	10	85	0	74	3	83
Riverside, CA	10								
Riverside, CA	15	0	50	0	49	0	50	0	48
Riverside, CA	20	0	74	0	57	0	58	0	68
Riverside, CA	25	2	77	0	65	0	62	0	68
Riverside, CA	30	8	86	1	79	0	65	0	69
Riverside,	35	14	86	2	81	0	74	0	75

CA									
Riverside, CA	40	27	97	18	89	9	91	6	83
Riverside, CA	45	57	97	40	101	32	111	39	102
Riverside, CA	50	95	113	69	119	77	111	81	105
Riverside, CA	55	122	124	106	120	103	111	106	123
Riverside, CA	60	137	135	126	126	110	128	110	123
Riverside, CA	100	140	137	126	126	110	128	110	123
Rochester, NY	5	0	15			0	18	0	8
Rochester, NY	10	0	25	0	20	0	23	0	19
Rochester, NY	15	0	35	0	32	0	33	0	28
Rochester, NY	20	0	42	0	45	0	38	0	50
Rochester, NY	25	0	47	0	46	0	49	0	50
Rochester, NY	30	0	51	0	48	0	52	0	55
Rochester, NY	35	0	64	0	70	0	59	0	60
Rochester, NY	40	0	69	0	70	0	65	0	68
Rochester, NY	45	0	70	0	73	0	65	0	68
Rochester, NY	50	3	78	0	73	0	67	0	74
Rochester, NY	55	5	83	1	78	0	67	0	74
Rochester, NY	60	8	83	3	85	0	75	0	74
Rochester, NY	100	9	88	4	85	0	75	0	74

Sacramento, CA	5							0	28
Sacramento, CA	10	0	28	0	39	0	36	0	36
Sacramento, CA	15	0	42	0	41	0	42	0	40
Sacramento, CA	20	0	54	0	52	0	50	0	54
Sacramento, CA	25	0	65	0	53	0	55	0	57
Sacramento, CA	30	1	77	0	65	0	68	0	68
Sacramento, CA	35	1	77	0	70	0	75	0	70
Sacramento, CA	40	9	85	9	100	3	86	5	87
Sacramento, CA	45	24	95	27	100	21	96	18	104
Sacramento, CA	50	37	99	39	116	41	103	21	104
Sacramento, CA	55	38	122	51	123	42	104	23	112
Sacramento, CA	60	38	122	54	123	42	104	23	112
Sacramento, CA	100	38	122	56	123	42	104	23	112
Salt Lake City, UT	5	0	41	0	28	0	15	0	33
Salt Lake City, UT	10	0	41	0	29	0	40	0	33
Salt Lake City, UT	15	0	41	0	38	0	40	0	38
Salt Lake City, UT	20	0	46	0	39	0	46	0	42
Salt Lake City, UT	25	0	49	0	54	0	50	0	52
Salt Lake City, UT	30	0	62	0	61	0	58	0	59
Salt Lake	35	0	66	0	63	0	62	0	68

City, UT									
Salt Lake City, UT	40	1	82	1	76	1	79	0	68
Salt Lake City, UT	45	4	82	4	81	2	79	1	78
Salt Lake City, UT	50	15	88	5	81	4	81	3	89
Salt Lake City, UT	55	19	96	8	88	4	81	4	91
Salt Lake City, UT	60	19	96	8	88	4	81	4	91
Salt Lake City, UT	100	19	96	8	88	4	81	4	91
San Antonio, TX	5	0	8	0	7	0	11		
San Antonio, TX	10	0	26	0	37	0	23		
San Antonio, TX	15	0	36	0	37	0	30	0	36
San Antonio, TX	20	0	49	0	47	0	44	0	47
San Antonio, TX	25	0	54	0	56	0	64	0	55
San Antonio, TX	30	0	66	0	68	0	70	0	67
San Antonio, TX	35	0	73	0	71	0	70	0	75
San Antonio, TX	40	2	85	1	81	0	72	2	86
San Antonio, TX	45	3	85	6	81	1	76	2	86
San Antonio, TX	50	3	85	10	82	3	90	2	86
San Antonio, TX	55	3	85	10	82	3	90	4	87
San Antonio, TX	60	3	85	10	82	3	90	4	87
San Antonio, TX	100	3	85	10	82	3	90	4	87

San Diego, CA	5								
San Diego, CA	10	0	43	0	37			0	40
San Diego, CA	15	0	45	0	48	0	47	0	48
San Diego, CA	20	0	53	0	58	0	62	0	50
San Diego, CA	25	0	64	0	71	0	63	0	58
San Diego, CA	30	4	89	0	72	2	78	1	79
San Diego, CA	35	9	89	8	86	10	97	5	88
San Diego, CA	40	20	92	15	95	16	97	9	88
San Diego, CA	45	22	92	28	103	24	97	14	90
San Diego, CA	50	25	92	34	109	24	97	14	90
San Diego, CA	55	26	92	35	109	24	97	14	90
San Diego, CA	60	26	92	35	109	24	97	14	90
San Diego, CA	100	27	92	35	109	24	97	14	90
San Jose, CA	5			0	19			0	23
San Jose, CA	10	0	42	0	38	0	35	0	41
San Jose, CA	15	0	49	0	44	0	43	0	42
San Jose, CA	20	0	65	0	64	0	55	0	52
San Jose, CA	25	0	69	0	69	0	63	0	60
San Jose, CA	30	0	74	0	74	0	72	0	70
San Jose,	35	2	83	4	87	0	72	0	70

CA									
San Jose, CA	40	3	83	11	87	3	78	1	80
San Jose, CA	45	3	83	13	97	7	81	2	80
San Jose, CA	50	3	83	14	97	8	82	6	91
San Jose, CA	55	3	83	14	97	8	82	7	91
San Jose, CA	60	3	83	14	97	8	82	7	91
San Jose, CA	100	3	83	14	97	8	82	7	91
Seattle, WA	5							0	25
Seattle, WA	10	0	24	0	39	0	37	0	38
Seattle, WA	15	0	45	0	49	0	42	0	50
Seattle, WA	20	0	52	0	50	0	54	0	50
Seattle, WA	25	0	59	0	58	0	61	0	52
Seattle, WA	30	0	64	0	67	0	68	0	61
Seattle, WA	35	0	68	3	87	2	84	0	73
Seattle, WA	40	2	89	3	87	3	84	1	77
Seattle, WA	45	2	89	4	91	4	84	1	77
Seattle, WA	50	2	89	4	91	4	84	1	77
Seattle, WA	55	2	89	4	91	4	84	1	77
Seattle, WA	60	2	89	4	91	4	84	1	77
Seattle, WA	100	2	89	4	91	4	84	1	77
Shreveport, LA	5	0	11	0	18	0	15		
Shreveport, LA	10	0	27	0	25	0	20	0	23
Shreveport, LA	15	0	45	0	34	0	34	0	30
Shreveport, LA	20	0	59	0	45	0	44	0	46
Shreveport, LA	25	0	59	0	56	0	52	0	53
Shreveport, LA	30	0	70	0	64	0	68	0	68

Shreveport, LA	35	1	78	0	68	0	71	0	72
Shreveport, LA	40	3	78	0	74	1	79	2	79
Shreveport, LA	45	3	78	1	77	3	79	6	87
Shreveport, LA	50	3	78	2	81	3	79	8	90
Shreveport, LA	55	4	91	2	81	4	96	9	90
Shreveport, LA	60	4	91	2	81	4	96	9	90
Shreveport, LA	100	4	91	2	81	4	96	9	90
Spokane, WA	5	0	2	0	35	0	31	0	29
Spokane, WA	10	0	2	0	35	0	31	0	29
Spokane, WA	15	0	2	0	35	0	31	0	29
Spokane, WA	20	0	32	0	35	0	32	0	37
Spokane, WA	25	0	40	0	41	0	40	0	44
Spokane, WA	30	0	49	0	48	0	50	0	57
Spokane, WA	35	0	55	0	56	0	56	0	58
Spokane, WA	40	0	64	0	61	0	58	0	59
Spokane, WA	45	0	71	0	61	0	62	0	59
Spokane, WA	50	0	72	0	64	0	62	0	67
Spokane, WA	55	0	72	0	64	0	62	0	67
Spokane, WA	60	0	72	0	64	0	62	0	67
Spokane,	100	0	72	0	64	0	62	0	67

WA									
St Louis, MO	5	0	13	0	14	0	9	0	11
St Louis, MO	10	0	32	0	24	0	21	0	26
St Louis, MO	15	0	36	0	33	0	38	0	36
St Louis, MO	20	0	47	0	46	0	44	0	46
St Louis, MO	25	0	55	0	55	0	61	0	61
St Louis, MO	30	0	70	0	74	0	70	0	73
St Louis, MO	35	0	73	3	80	0	70	2	82
St Louis, MO	40	9	88	4	80	3	96	11	86
St Louis, MO	45	21	93	6	82	4	96	17	91
St Louis, MO	50	34	101	8	89	4	96	20	91
St Louis, MO	55	39	113	8	89	5	96	23	91
St Louis, MO	60	39	113	8	89	5	96	23	91
St Louis, MO	100	39	113	8	89	5	96	23	91
Stockton, CA	5	0	11	0	12	0	18	0	12
Stockton, CA	10	0	31	0	37	0	24	0	26
Stockton, CA	15	0	36	0	37	0	35	0	35
Stockton, CA	20	0	48	0	45	0	44	0	39
Stockton, CA	25	0	55	0	56	0	55	0	49
Stockton, CA	30	0	56	1	81	0	59	0	61

Stockton, CA	35	0	68	2	82	0	71	0	64
Stockton, CA	40	1	79	5	85	0	74	0	74
Stockton, CA	45	3	79	9	85	4	80	1	77
Stockton, CA	50	5	83	13	90	6	80	3	83
Stockton, CA	55	6	83	15	103	8	96	3	83
Stockton, CA	60	6	83	16	103	8	96	4	95
Stockton, CA	100	6	83	16	103	8	96	4	95
Syracuse, NY	5								
Syracuse, NY	10	0	27	0	18			0	21
Syracuse, NY	15	0	39	0	37	0	34	0	37
Syracuse, NY	20	0	45	0	43	0	44	0	47
Syracuse, NY	25	0	52	0	56	0	52	0	59
Syracuse, NY	30	0	64	0	58	0	58	0	59
Syracuse, NY	35	0	67	0	64	0	66	0	64
Syracuse, NY	40	0	72	0	66	0	66	0	69
Syracuse, NY	45	1	76	0	70	0	69	2	82
Syracuse, NY	50	2	83	1	79	0	69	3	82
Syracuse, NY	55	5	85	1	79	0	69	3	82
Syracuse, NY	60	9	87	2	85	0	69	3	82
Syracuse,	100	10	87	3	90	1	76	3	82

NY									
Tampa, FL	5								
Tampa, FL	10					0	18		
Tampa, FL	15	0	35	0	40	0	46	0	41
Tampa, FL	20	0	47	0	51	0	54	0	50
Tampa, FL	25	0	61	0	60	0	64	0	65
Tampa, FL	30	0	70	0	60	0	67	0	70
Tampa, FL	35	0	74	0	69	0	70	0	70
Tampa, FL	40	2	79	0	73	2	76	1	77
Tampa, FL	45	4	97	1	83	3	76	2	87
Tampa, FL	50	8	97	1	83	4	76	2	87
Tampa, FL	55	12	97	4	83	4	76	2	87
Tampa, FL	60	12	97	7	100	4	76	2	87
Tampa, FL	100	12	97	7	100	4	76	2	87
Toledo, OH	5	0	21	0	34	0	42	0	35
Toledo, OH	10	0	21	0	34	0	42	0	35
Toledo, OH	15	0	31	0	35	0	42	0	36
Toledo, OH	20	0	45	0	51	0	42	0	37
Toledo, OH	25	0	58	0	52	0	52	0	51
Toledo, OH	30	0	61	0	65	0	58	0	59
Toledo, OH	35	0	75	0	74	0	61	0	69
Toledo, OH	40	2	99	1	77	1	87	1	91
Toledo, OH	45	3	99	2	77	2	87	3	91
Toledo, OH	50	5	99	4	79	2	87	3	91
Toledo, OH	55	7	99	4	79	2	87	3	91
Toledo, OH	60	8	99	4	79	2	87	3	91
Toledo, OH	100	8	99	4	79	2	87	3	91
Tucson, AZ	10	0	29						
Tucson, AZ	15	0	38	0	39	0	36		
Tucson, AZ	20	0	47	0	44	0	44	0	43
Tucson, AZ	25	0	51	0	51	0	49	0	47
Tucson, AZ	30	0	60	0	57	0	55	0	59
Tucson, AZ	35	0	66	0	64	0	59	0	59
Tucson, AZ	40	0	68	0	70	0	64	0	64
Tucson, AZ	45	0	73	1	80	0	69	0	68

Tucson, AZ	50	0	75	2	80	1	77	0	73
Tucson, AZ	55	0	75	2	80	1	77	0	75
Tucson, AZ	60	0	75	2	80	1	77	0	75
Tucson, AZ	100	0	75	2	80	1	77	0	75
Tulsa, OK	5	0	17	0	22	0	17		
Tulsa, OK	10	0	25	0	27	0	22	0	23
Tulsa, OK	15	0	36	0	38	0	33	0	36
Tulsa, OK	20	0	45	0	43	0	43	0	43
Tulsa, OK	25	0	62	0	57	0	48	0	64
Tulsa, OK	30	0	62	0	64	0	65	0	65
Tulsa, OK	35	1	80	1	77	1	81	1	77
Tulsa, OK	40	3	95	2	79	1	81	2	78
Tulsa, OK	45	5	95	4	79	4	94	2	78
Tulsa, OK	50	5	95	6	87	5	94	2	78
Tulsa, OK	55	5	95	8	100	6	94	2	78
Tulsa, OK	60	5	95	8	100	6	94	2	78
Tulsa, OK	100	5	95	8	100	6	94	2	78
Washington, DC	5	0	26	0	20	0	19	0	14
Washington, DC	10	0	35	0	31	0	29	0	29
Washington, DC	15	0	57	0	41	0	38	0	36
Washington, DC	20	0	57	0	55	0	50	0	41
Washington, DC	25	0	57	0	57	0	63	0	55
Washington, DC	30	0	65	0	71	0	65	0	70
Washington, DC	35	1	78	1	81	0	72	0	71
Washington, DC	40	9	88	6	87	4	85	10	98
Washington, DC	45	25	91	13	102	4	85	23	98
Washington, DC	50	37	103	19	104	4	85	31	98

Washington, DC	55	43	110	20	104	4	85	32	100
Washington, DC	60	44	110	20	104	4	85	33	100
Washington, DC	100	44	110	20	104	4	85	33	100
Wichita, KS	5	0	9	0	14	0	12		
Wichita, KS	10	0	37	0	27	0	26	0	26
Wichita, KS	15	0	47	0	39	0	33	0	36
Wichita, KS	20	0	54	0	47	0	41	0	38
Wichita, KS	25	0	55	0	57	0	50	0	57
Wichita, KS	30	0	64	0	61	0	56	0	58
Wichita, KS	35	0	66	0	62	0	59	0	60
Wichita, KS	40	0	70	0	67	0	62	0	64
Wichita, KS	45	0	71	0	68	0	74	2	77
Wichita, KS	50	1	76	1	77	1	95	2	77
Wichita, KS	55	1	76	1	77	2	95	2	77
Wichita, KS	60	1	76	1	77	2	95	4	77
Wichita, KS	100	1	76	1	77	2	95	4	77
Worcester, MA	5	0	41	0	47	0	42	0	38
Worcester, MA	10	0	41	0	47	0	42	0	38
Worcester, MA	15	0	41	0	47	0	42	0	38
Worcester, MA	20	0	41	0	47	0	42	0	38
Worcester, MA	25	0	41	0	47	0	43	0	45
Worcester, MA	30	0	41	0	47	0	49	0	48
Worcester, MA	35	0	45	0	51	0	61	0	56
Worcester, MA	40	0	58	0	53	0	61	0	64
Worcester, MA	45	0	67	0	65	0	71	0	70
Worcester,	50	0	73	0	65	0	74	1	77

MA									
Worcester, MA	55	2	79	0	67	0	74	2	78
Worcester, MA	60	8	84	1	89	2	86	3	83
Worcester, MA	100	20	96	8	104	4	86	3	83