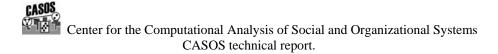
300 Cities - An Exploration in Characterizing US Cities

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Abstract

The goal of the 300-Cities Project is to support IRS policy decisions by finding a small number of city clusters, where the cities within each cluster will respond similarly to IRS interventions. This report describes two types of analyses based on U.S. Census 2000 data. The first is an agent-class analysis. In this analysis city clustering operations are based on the correspondence of population profiles for pairs of cities. Extensive effort using this analysis framework in conjunction with the SAS statistical package demonstrates that although the framework is conceptually straightforward, it is computationally impractical and conceptually impoverished. The second analysis framework, the city-matching analysis, combines city summary and population heterogeneity metrics with information access constraints and taxpayer categories to create a city-matching index for each pair of cities. The city-matching analysis thus shifts the basis of analysis from a city's population profile to its information diffusion characteristics, and provides "hooks" to IRS classification schemes to make the findings more actionable. City clustering operations in this framework are based on city-matching indices, which were analyzed by traditional social network analysis techniques using the Organizational Risk Analyzer (ORA). Although the issue of how best to integrate the various components of the city-match index remain unresolved, exploratory results show promise by yielding actionable city clusters. The city clusters, however, only account for 95 of the 297 cities in the Census 2000 data. Together, the two analysis frameworks raise questions as to whether canonical city types exist. At this point, it does seem reasonable to believe that iterative development of the nascent city-matching analysis, coupled with virtual experiments to validate results provided by the framework, will yield actionable information for IRS interventions. Whether that actionable information will employ canonical city clusters, however, remains unclear.

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Overview

The goal of the 300-Cities Project is to identify canonical city types, which can subsequently be used to identify intervention strategies. To elaborate, the goal is to find a small number of city clusters, where the cities within each cluster provide similar social constraints on agent behavior. Since the cities included in each city cluster are alike, a canonical city can represent the entire cluster. Thus, the identification of city clusters provides for economy of effort in subsequent simulation studies because we can run simulations using the canonical cities that represent city clusters rather than having to run simulations for each of the individual cities. In the long term, it also provides guidance for prudent application of IRS interventions.

The 300-Cities moniker for this project stems from an estimate of the total number of cities in the United States as defined using Primary Metropolitan Statistical Areas (PMSAs) and Metropolitan Statistical Areas (MSAs) in Census 2000 data. Thus the term city, as used in this report, refers one of the 297 PMSAs or MSAs available in the Census Bureau's Public Use Microdata Sample (PUMS) 5% data set. Due to the Census Bureau's criteria for inclusion in the PUMS data set an additional 40 MSAs with small populations were excluded from the data set and hence from the analyses performed for this project.

Our initial approach to finding clusters of similar cities is conceptually straightforward. We first define agent-classes¹ as combinations of socioeconomic variables. We then count, for each city, the number of people in each agent-class. Next, we construct a social distance metric measuring the similarity of cities by correlating the population profiles of agent-classes between each pair of cities. Finally, we cluster cities according to their social distances. Our clustering operations employed Multi-Dimensional Scaling (MDS) in SAS.

Difficulties encountered during the agent-class analysis led to an exploration of whether a deep structure analysis in ORA could be used to identify canonical city types. Exploratory results were promising, and led to a revision of our initial, agent-class analysis to include additional city-level metrics in the calculation of social distances among cities. The new, city-match analysis, we believe, will provide results that are more actionable with respect to policy decisions.

Given the centrality of agent-class definitions in the analysis techniques described in this report, the results of the analyses should be interpreted more as a proof of concept for a general technique than as analytical findings per se. The results described are only illustrative – as the clusters found using this technique will vary depending on how agent-classes are defined. The sensitivity of the technique to agent-class definitions provides a means for "tuning" the analysis to alternative schemes for classifying people which may be more in line with current policy decisions or organizational missions.

The next section describes source data from the Census Bureau in some detail. Subsequent sections address agent-class definition, social distance construction, and clustering operations for

¹ "Agent" is used in the social simulation sense of an abstract or synthetic representation of a person.

the agent-class analysis, followed by similar descriptions of the city-match analysis. A conclusion and future directions section ends the report.

1 Source Data

In order to perform city clustering, city characteristics must be defined and measures of their similarity (or dissimilarity) produced. Government statistical sources in the public domain were the immediate choice for reasons of economy and ease of access.

The following general characteristics were considered key for selecting the data for analysis:

- o Urban areas/cities can be defined a consistent way.
- National in scope.
- o Available without special restriction.
- o Amenable to clustering and multidimensional scaling.

The US Census Bureau was considered the most promising source and the 2000 Public Use Microdata Sample (PUMS) 5-percent sample was selected. The PUMS data set is based on Census Long Form and provides information on individual housing units and persons, which allows great flexibility in data analysis. The PUMS also identifies housing units in urban areas by city (MSA/PMSA). Due to privacy considerations, PUMS data limits the geographic resolution when compared to other data products employing Census Long Form data (for example predefined tabular data). Since the intent was to characterize cities, this lower geographic resolution was considered acceptable. For certain analyses, the PUMS data was augmented using geographic information drawn from the Summary File 3 (SF 3) [1] presentation of the Census Long Form data.

The PUMS dataset employed in the study was derived from information collected during the 2000 Census and is slated for replacement by the American Community Survey (ACS) in the near future. The ACS surveys households more frequently than the decennial census and uses many of the same survey questions and coding schemes, making it substantially comparable to the PUMS data. However the current ACS coding scheme does not assign an urban area code and the annual survey collected for the ACS is smaller in size than the census data set, leading to the use of data collected over longer periods in time for smaller demographic units. For the present study, the additional effort required to use ACS data did not seem justified. However, employment of ACS data in future studies is contemplated.

1.1 PUMS Overview and Description

The data for the analysis was drawn from the US Census 2000 Public Use Microdata Sample (PUMS) 5-percent sample. The PUMS data set provides information about individual housing units and persons, along with a weight for each record which can be used to expand the sample to a population total.

The PUMS was created from responses to the US Census 2000 Long Form questionnaire, which was distributed to selected household units at varying sampling rates:

There were four different housing unit sampling rates: 1-in-8, 1-in-6, 1-in-4, and 1-in-2 (designed for an overall average of about 1-in-6). The Census Bureau assigned these varying rates based on pre-census occupied housing unit estimates of various geographic and statistical entities, such as incorporated places and interim census tracts. For people living in group quarters or enumerated at long form eligible service sites (shelters and soup kitchens), the sampling unit was the person and the sampling rate was 1-in-6. [2] (Page 5-1)

The Census Bureau then selected individual Long Form responses to create a uniformly sized sample for the entire nation, including territories. Two PUMS samples sizes are available: 1-percent and 5-percent. The larger 5-percent sample was employed for this study since it provided better geographic resolution and included data on more housing units and individuals.

The PUMS data contains two types of data records. Housing unit records provide information about the housing unit such as size, age and type along with a unique (by state) serial number. Each housing unit record is followed by one or more person records, containing demographic and financial information about an individual who is a member of the household. Each person record also includes a serial number which ties them to the household record.

The PUMS data includes information in multiple categories²:

- Housing Unit record (114 variables³, fixed length of 316 characters):
 - o Size
 - o Age
 - o Type
 - Cost
 - o Taxes
 - Location
 - o Income
 - Residents
- Person record (164 variables⁴, fixed length of 316 characters):
 - o Demographics (Age, Race, National Origin, Gender)
 - Citizenship and Migration
 - o Family Relationships
 - Education
 - Disability
 - o Military Service
 - Occupation
 - Commuting
 - o Income

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² For a complete description consult reference [1].

³ Excluding administrative, filler and flag variables, approximately 75 housing unit variables were candidates for inclusion in the study.

⁴ Excluding administrative, filler and flag variables, approximately 106 person variables were candidates for inclusion in the study.

1.2 Data Weighting

The PUMS 5-percent data includes a weight for each housing unit and person, which is the number of actual housing units or persons the record is considered to represent. For this study the weighted values were used to create similarity/dissimilarity measures for each city. For instance, the population of a city was computed as the sum of the person weights of all person records for a given city, not the raw count of individual person records.

1.3 Urban Areas Definitions and PUMS Geographic Sampling

The PUMS uses U.S. Office of Management and Budget (OMB) Metropolitan Areas (MAs) as to define urban areas.

The general concept of a metropolitan or micropolitan statistical area is that of a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core. [3] The terminology, definition and the geographic outline of Metropolitan Areas has varied with time in order to track the evolution of American cities. For the 2000 Census, the MA definitions for 1999 were used [4], [5], [6], [7].

"MAs are defined in terms of counties... In New England, however, these areas are defined in terms of cities and towns..." [8] (page B-1). An MA must meet a series of requirements. For instance, an MA must include either a city with at least 50,000 inhabitants or "A Census Bureau defined urbanized area of at least 50,000 population, provided that the component county/counties of the MSA have a total population of at least 100,000." [8] (Page B-3), except in New England where different standards apply.

Metropolitan Areas vary widely in population size. In the 2000 Census, the largest metropolitan area (New York--Northern New Jersey--Long Island, NY--NJ--CT--PA CMSA) contained 21,199,865 persons on April 1, 2000 while the smallest (Enid, OK MSA) contained 57,813 [9]. In the 1999 definition, a two level hierarchy is available for larger metropolitan areas. The entire urban area is termed a Consolidated Metropolitan Statistical Area (CMSA) and contains two or more Primary Metropolitan Statistical Areas (PMSAs). Smaller urban areas are simply designated Metropolitan Statistical Areas (MSAs).

MSA's, CMSA's and PMSA's – What's the Difference

Metro areas with a million or more people may be subdivided into PMSA's if population and commuting criteria are met and there is local support for PMSA's. When areas are divided into PMSA's the entire area becomes a CMSA. Metro areas that are not subdivided are designated MSA's. [10] (Page 2)

In this study, the analysis was performed using MSAs and the PMSA components of large urban areas rather than the CMSA. Since creation of CMSAs is not consistent and the existing CMSAs cover large geographical areas, usually with multiple core areas (for example the Washington-Baltimore, DC--MD--VA--WV CMSA), the PMSA level was considered to be more relevant for the study.

The PUMS uses Metropolitan Areas for certain data fields but introduces a separate geographic concept to group PUMS data. While the Census Bureau has detailed geographic information on the household location, large sample areas containing some 100,000 individuals are defined to group the PUMS data records.

A Public Use Microdata Area (PUMA) is a decennial census area for which the Census Bureau provides specially selected extracts of raw data from a small sample of long-form census records that are screened to protect confidentiality. These extracts are referred to as "public use microdata sample (PUMS)" files. The 5-percent PUMAs comprise areas that contain at least 100,000 people... For Census 2000, PUMAs cannot be in more than one state or statistically equivalent entity...

Compared to other census products, such as the Redistricting Data File and Summary File 1 (SF 1) (based on 100 percent counts released at the census block level), or the Summary File 3 (SF 3) (based on the Census 2000 long form sample released at the census tract/block group level), the PUMS contains less geographic specificity, and a much smaller sample size. [11]

The PUMAs employed for the 2000 Census are made up using counties or county equivalents in whole, in part or in combination [12]. PUMAs may be discontinuous. A PUMA may lie entirely inside or outside a Metropolitan Area. It may be partly rural and partly urban. It may include more territory from more than one Metropolitan Area. In cases where a PUMA lies partly but not entirely within single Metropolitan Area, the following encoding is used to designate the Metropolitan Area:

D MSAPMSA5 4 28 31

T Metropolitan Area: MSA/PMSA for PUMA

R 0040..9360 . FIPS MSA/PMSA Code

V 9997. Mixed MSA/PMSA and nonmetropolitan territory

V 9998. 2 or more partial and/or entire MSAs/PMSAs

V 9999. Not in metropolitan area [1] (Page 7-24)

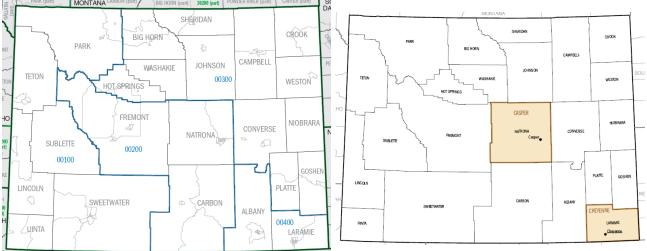
Consequently, any data from mixed sample areas is not attributable to a Metropolitan Area and could not be incorporated in the study. Since smaller Metropolitan Areas contain less than the minimum population size for a PUMA, no data from them is identifiable and the entire Metropolitan Area was not included in the study (see Figure 1).

Figure 1: Wyoming: Example of PUMAs Larger than Metropolitan Areas.

Wyoming Public Use Microdata Areas on left (outlined in blue), Metropolitan areas on right (shaded). PUMAs 00200 and 00400 are classed as mixed.

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Of a total of 337 MSA/PMSAs used during the 2000 Census, 40 were classified as mixed in the PUMS 5% sample and were not available for analysis, leaving 297 for inclusion in the study.

1.4 Geographic Coverage

The study used all Metropolitan Areas included in the PUMS 5-percent sample that are within the states of the United States (including Alaska and Hawaii) and the District of Columbia. U.S. Territories were excluded. In practical terms, among the U.S. Territories only the Commonwealth of Puerto Rico included Metropolitan Areas in the 2000 Census.

1.5 PUMS Privacy and Data Accuracy

Since PUMS data is provided at the level of housing units and persons, certain steps are taken by the Census Bureau to ensure privacy by making it difficult to identify individuals based on PUMS data. This places some limitations on the data used for the clustering study.

- MA Encoding As described above, PUMS 5-percent data is presented as if it was drawn from a geographic block of roughly 100,000 persons. If the sampling block does not lie entirely within a single Metropolitan Area, the MA ID is not coded for those data records. "A geographic area must have a minimum of 100,000 population to be fully identified in the 5 percent file..." [1] (page 4-2)
- o **Top Coding** For certain data variables⁵, the high and low values are obscured by using a single predefined value instead of the actual data. For top codes, any value which exceeds the national minimal value (national 99.5 percentile for dollar amounts, over 90 for age) is replaced by the state mean value. For low values (bottom codes), any dollar

⁵ Eleven housing variables and nine person variables are topcoded in the 2000 Public Use Microdata Sample files. Age was topcoded for person records, while the remaining nineteen values were dollar amounts for expenses, taxes and incomes.

- amount below \$10,000 is replaced by -10,000. [13] When aggregated by state, data top-coded using this procedure would yield accurate total values. Since Metropolitan Areas usually do not cover the entire state and may state cross state boundaries, bias may be introduced by this top coding.
- Data swapping "...is a method of disclosure limitation designed to protect confidentiality in data (the number or percentage of the population with certain characteristics). Data swapping is done by editing the source data or exchanging records for a sample of cases. A sample of households is selected and matched on a set of selected key variables with households in neighboring geographic areas that have similar characteristics." [1] (Page 4-1) The bias effects of data swapping are unknown, but "...the swap often occurs within a neighboring area..." [1] (Page 4-1) which may help reduce the bias effects

2 Agent-class Analysis

2.1 Agent-class Definition

Agent-classes are defined by a combination of socioeconomic variables drawn from extant data sources – the 5% PUMS data set in this case. Each variable in the combination corresponds to one dimension of an agent, where each dimension has two or more nominal or ordinal values (e.g., gender: male, female; age: 20-29, 30-39, 40-49; etc.). A preliminary step in agent-class definition, therefore, requires that continuous variables in the source data such as age or income be divided (i.e., binned) into a reasonable number of ordinal values.

The selection (and binning) of socioeconomic variables used to define agent-classes is of core importance. The variables selected comprise the core link between simulation studies and the real-world populations the simulations are intended to represent. The selected variables also affect the structure that will be detected with clustering techniques because agent-classes are used to construct the social distances on which clustering operations are performed.

2.1.1 Selection and Mapping of PUMS Socioeconomic Variables

Our agent-class definition scheme (Version 2.2)⁶ is shown Table 1. The scheme consists of the 15 socioeconomic variables we used to classify people in the current analysis. For each variable of interest, the table provides the number of bins, bin values, corresponding source data variable(s), and a short description. Each combination of values for these 15 variables defines one 15-dimensional agent-class.

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⁶ We iteratively revised our binning scheme in an effort to reduce the memory requirements for analyses using 32-bit SAS on a Windows platform. The binning scheme impacts the number of agent-classes. Agent-classes, in turn, are treated as variables in some of the clustering operations we desired to perform in SAS (i.e., principle components analysis, nonhierarchical clustering). Even with the latest bin definitions, however, we still exceed SAS's memory limits for conducting these analyses. Further revisions to our binning scheme for the purpose of reducing memory requirements in SAS appear counterproductive.

Table 1: PUMS Data Bins

Mapped Variable	# Bins	Values	PUMS Source	Description (and Notes)
	5	Asian, Black, Hispanic, Other,	Variable(s) RACE1,	Race (using pre-2000
arace	3	White	HISPAN	census definitions).
agebin	5	<30, 30s, 40s, 50s, 60+	AGE	Age
asex	2	Male, Female	SEX	Gender
	2	Married, Not Married	MARSTAT	Marital status
ams	2	Parent, Not Parent	RC	Parent
aparent akids	3	0, 1, 2+	P18	Children under 18 yrs
akius	3	0, 1, 2+	F10	in household
aed	4	No High School Diploma,	EDUC	Educational attainment
		HSD/Some College, BA/BS, Professional/Grad		
aocc	9	Unknown, Professional, Service,	OCCCEN5	Occupation (Census
		Office & Sales, Agriculture,		Bureau categories)
		Construction, Transportation,		
		Military, Unemployed		
ali	2	Linguistically Isolated, Not	LNGI	Linguistic isolation
		Linguistically Isolated		(household ability to
				understand English)
abuilding	3	Single Family House, Near a	BLDGSZ	Building size
		Few, Large Apartment		
		Complex/GQ		
atenure	4	General Quarters, within 1 year,	YRMOVED	Year household moved
		within 2 years, 3+ years ago		to current home
ainctot	8	Loss, None, <15K, <30K, <50K, <80K, <120K, 120K+	INCTOT	Total income
aincnw	4	Loss, None, <u.s. median,="" td="" u.s.<=""><td>INCINT,</td><td>Sum of non-wage</td></u.s.>	INCINT,	Sum of non-wage
		Median+	INCRET,	income
			INCSS,	
			INCSSI,	
			INCPA,	
			INCOTH	
ahapi	4	Loss, None, <u.s. median,="" td="" u.s.<=""><td>SMOCAPI,</td><td>Housing expenses as</td></u.s.>	SMOCAPI,	Housing expenses as
=		Median+	GRAPI	percentage of income
apov	2	Poverty, Not Poverty	POVERTY	Living in poverty
				status

2.1.2 Observed Agent-class Characteristics

For all analyses described in this report, we excluded data from rural areas and mixed PMSA/MSAs (PUMS MSAPMSA5 codes 9997, 9998, and 9999). Children less than 15 years old were also excluded because their incomes were not reported. With the remaining PUMS data,

we classified each person in a city by agent-class, and tallied the number of agents in each agent-class.

Using binning scheme version 2.2, approximately 1.02 million agent-classes (1,002,277 to be exact) out of a possible 132,710,400 agent-classes contained at least one person. The median number of agents per class was 35. The smallest populated agent-class had 1 member agent; the largest class had 605,877 agents. Thus, one person in the U.S. is unique in terms of the socioeconomic variables we used to define agents in this analysis. That person is a white female in her 40's, married, not a parent, living with no kids, holds an advanced degree, is in the military, speaks English, has lived in her single-family house 1 year or less, has a \$50-80,000 income with non-wage income less than the national median, has nil housing expenses and is living above the poverty mark (agent class wf4mn03mn11_41xn). The most common class of agent (wf6mn01un13_121n) is a white female, 60+ years old, married, not a parent, living with no related children, graduated from high school and took some college courses, is unemployed, speaks English, has lived in her single-family house for 3+ years. Her total income is \$30-50,000, with non-wage income below the national median. Her housing expenses (as a percentage of income) are less than the national median, and she is living above the poverty line.

This most common agent-class (wf6mn01un13_121n) is found in all 297 cities in the U.S. Over 50% of the agent-classes, however, are localized in – hence unique to – one city. All 297 cities have some unique agent-classes. That each city's population is comprised of unique agent-classes indicates that some degree of the social context experienced in every city of the U.S. stems from idiosyncratic diversity in the local population.

City-unique diversity (i.e., agent-classes found in only 1 city) accounts for a median of 4.4% of a city's population (see Figure 2). The city with the highest proportion of unique agent-classes in its population is Honolulu, HI (24.3%). The city with the lowest proportion of unique agent-classes in its population is Sharon, PA (1.8%).

⁷ Since the PUMS data set is a weighted 5% sample, there may be other unique agent-classes in the general population; similarly city-unique or unique agent-classes may in fact be non-unique when considering the general population.

Figure 2: City Unique Diversity.

Percent of city population composed of unique agent classes.

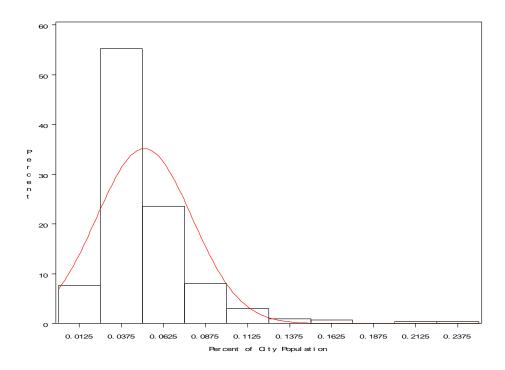


Figure 3 depicts population diversity in cities regardless of agent-class uniqueness. The median number of agent-classes per city was 8545. The city with the least diversity in its population was Sioux Falls, SD – with only 2439 agent-classes. Los Angeles-Long Beach, CA had the most diverse population, composed of 186,652 agent-classes.

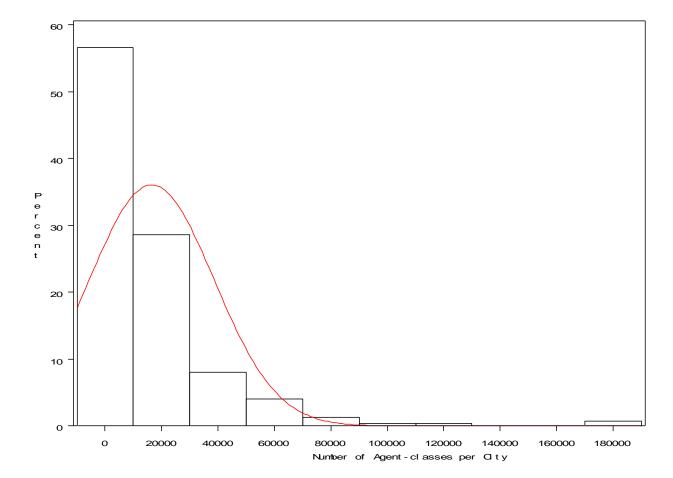


Figure 3: Number of Agent-classes per City.

2.2 Social Distance Construction

For each city, we created a City Agent Profile (CAP) from the number of agents per observed agent-class. CAPs are vectors with ~1.02 million elements (one per agent-class) that describe cities in terms of the composition of their agent populations.

Pairwise correlations between CAPs yield a measure of the similarity between two city's agent populations. Pairwise CAP correlations thus form the inverse of our measure of the social distance between cities.

As can be seen in Figure 4, CAP correlations ranged from a minimum of .006 (Laredo, TX and Manchester, NH) to a maximum of .916 (Pittsburgh, PA and Cleveland-Lorain-Elyria, OH). The correlations were normally distributed with a mean of .43 and a standard deviation of .15.

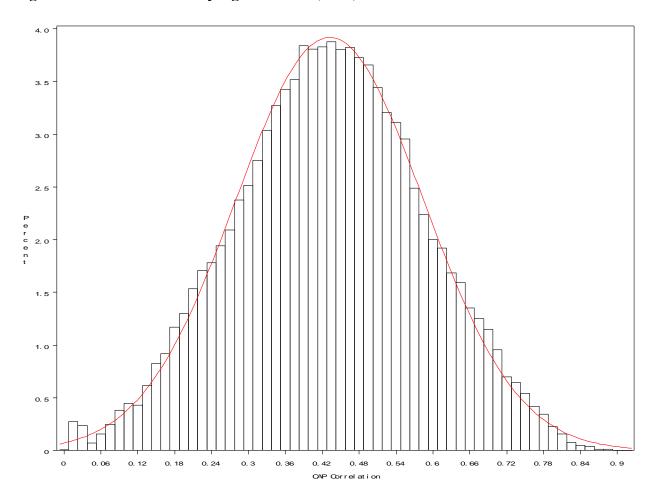


Figure 4: Distribution of City Agent Profile (CAP) Correlations.

2.3 Clustering Operations

The correlations among CAPs served as input to Multi-Dimensional Scaling (MDS) analyses in SAS and an exploratory ORA deep structure analysis. To anticipate the conclusion, the low-dimensional descriptions of structure in the social distances between cities produced by our MDS analyses provided little insight for clustering of cities, whereas the exploratory ORA deep structure analyses showed promise as a technique for defining city types.

2.3.1 Multi-Dimensional Scaling Analysis with SAS

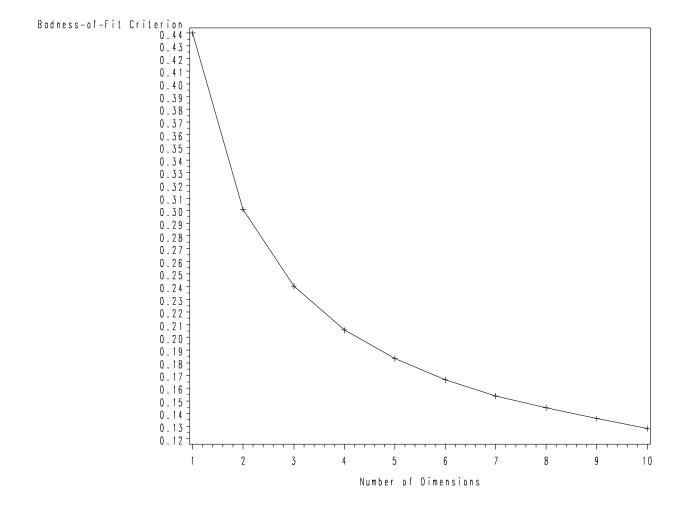
The pairwise CAPs correlations for the 297 cities served as a proximity matrix in an ordinal MDS. Solutions for models with 1 to 10 dimensions were explored.

2.3.1.1 Raw Counts Model

Examination of the scree plot (see Figure 5) shows a relatively smooth reduction in stress (improvement in model fit) as the number of dimensions in the model increases. But even with a 10-dimensional model, the fit is not "good" per se. (We would like the stress to be below 0.10.) Although there is no obvious elbow in the scree plot, improvements in fit due to increased

dimensionality appear to diminish substantially starting at models with 3- to 4-dimensions. The fit for the 3- and 4-dimensional models, however, is relatively poor. All in all, these results indicate that structure in the proximity matrix is relatively weak.

Figure 5: Scree plot: Stress as a Function of MDS Model Dimensions.



Visual inspection of the 300-cities in the three dimensional solution shows a reasonable dispersion of the cities but no apparent city-clusters (see Figure 6 through Figure 8).

Figure 6: City Coordinates in MDS Solution: Dimension 2 versus Dimension 1.

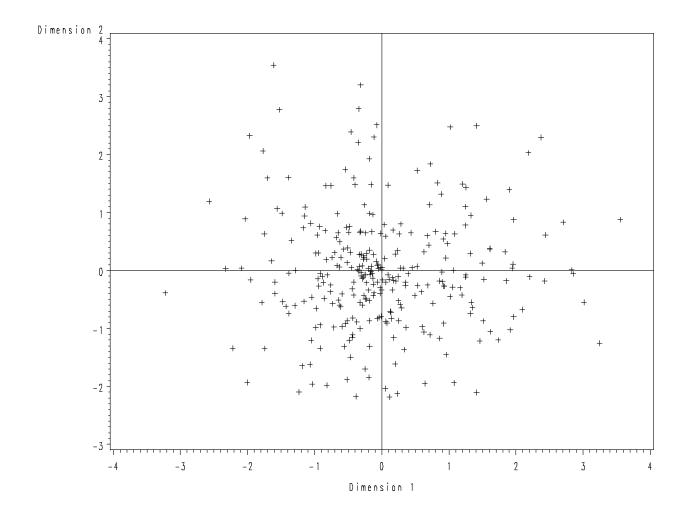
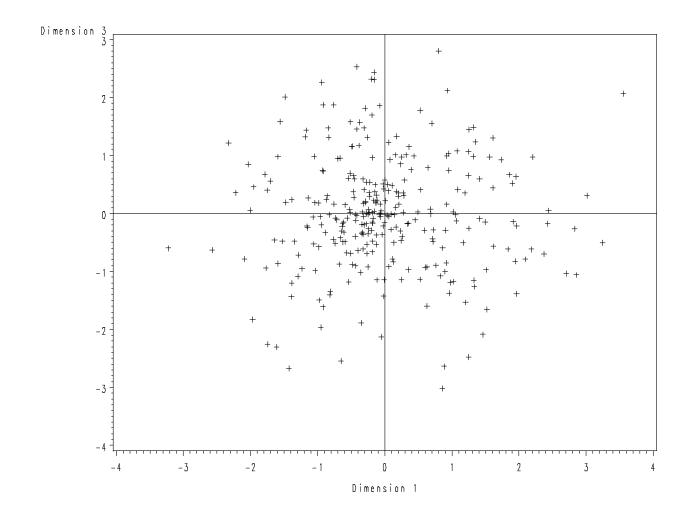


Figure 7: City Coordinates in MDS Solution: Dimension 3 versus Dimension 1.



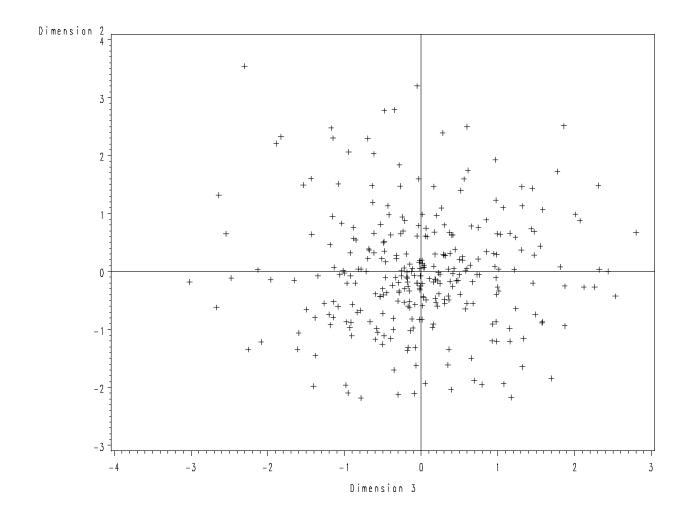


Figure 8: City Coordinates in MDS Solution: Dimension 2 versus Dimension 3.

2.3.1.2 Rejected Transformations

The properties of social distances constructed using agent-class counts are largely unknown at this point, as it is an area of ongoing development. Concerns over the impact that anomalies in the distribution of agent-class counts may have on Pearson's correlation coefficient and the MDS analysis led to an examination of several data transformations commonly performed on count data. To reduce the impact that exceptionally large counts for common agent-classes may have on our social distance metric, we took the square-root of agent-class counts; computed pairwise CAP correlations; and then performed MDS analyses. No substantive differences in the fits produced by transformed versus raw agent-class counts were found. We also examined the impact of using proportion of a city's population in CAPs rather than raw counts. Again no substantive change in the MDS model was observed. The impact of using an arcsine transformation of the proportions of city population in CAPs was also examined – again with no substantive change in MDS model.

We also examined the impact that aggregating city-unique agents into a single agent-class (cf. "other" category) would have on the MDS solution. The results again were not substantially

different from the basic analysis. Finally, we examined the impact of removing city-unique agents and common (widely distributed) agent-classes which were found in 290 or more cities. The resulting MDS solution in this case was substantially worse.

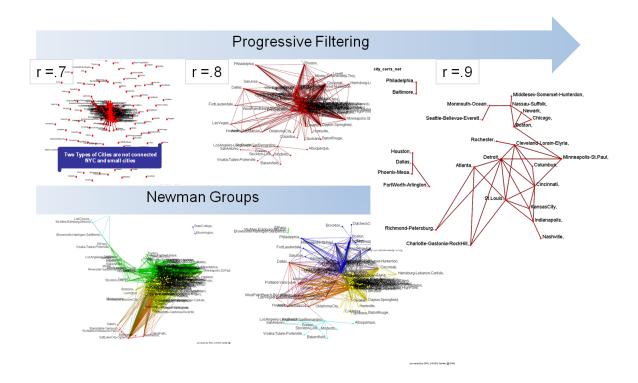
2.3.2 Exploratory Deep-structure Analysis with ORA

As described thus far, various binning schemes and data transformations failed to yield distinct clusters of similar cities. Although the agent-class analysis is conceptually straightforward, the use of detailed agent-classes as the basis of city similarities is impractical when using SAS as the analysis package. The problem arises from the fact that the number of agent-classes produced by a particular binning scheme can easily be in the millions. With the exception of MDS, clustering procedures available in SAS (e.g., non-hierarchical clustering, principle components analysis) require that each agent-class be treated as a separate variable. Although SAS, in principle, can perform clustering analyses on millions of variables, the implementation of 32-bit SAS under Windows imposes memory limitations that effectively prevent alternative agent-class analyses. Therefore, we were unable to determine whether alternative clustering techniques in SAS would yield better results.

The clustering techniques available in ORA (e.g., Concor, Newman Grouping) provide a viable alternative approach. Given that the poor fit of the MDS models generated with SAS implies a relative lack of structure in the distances computed from agent-classes, we find no evidence of a small number of city clusters when we assume that city clusters can be discerned using a small number of continuous dimensions to describe *all* social distances (near and far alike) among cities. This raises the possibility that our assumption of continuous underlying dimensions in a model of all social distances is too stringent. If we relax this assumption by filtering the social distances such that weak similarities between cities (i.e., far distances) are removed from consideration, then ORA clustering techniques may provide discernable city clusters.

The following figure (Figure 9) shows the results of exploratory ORA clustering analyses in which the CAP correlations were progressively filtered to remove far social distances (i.e., weak similarities). As can be seen by the color coding of Newman Groups, ORA detects 6-8 city types. This aspect of the deep-structure analyses shows promise. The analyses, however, only account for a subset of the 297 cities.

Figure 9. City Clusters via ORA Deep-structure Analyses on Filtered City Distances.



2.4 Lessons Learned from Agent-class Analysis

The naive approach to finding similar cities is to create detailed agent classes and then perform clustering operations in a statistical package (e.g., SAS). This was done. There are two problems with this approach. First, the number of agent classes is in the millions and tools such as SAS and SPSS were not designed to run clustering algorithms on data sets with so many variables (i.e., agent-classes). Unfortunately, a 64-bit version of SAS was not available within the time and budget constraints of the project (nor is it certain that this version would have improved results).

Second, meaningful comparison of cities to enact policies does not require similarity in the percentage of agents by detailed agent classes. This conclusion was prompted by the exploratory ORA deep-structure analysis. As we move to more traditional network analysis techniques, the issue of information diffusion within a society comes to the forefront. The diffusion of information in response to IRS interventions depends on more than the correspondence of population profiles among cities – an implicit assumption behind using CAP correlations as social distance metrics. The city-matching analysis described in the next section addresses this issue.

3 City Matching Analysis

Lessons learned from the agent-class analysis indicate the need for a new approach to constructing social distances between cities that is better tuned to similarities in information diffusion characteristics of cities. To adequately capture similarities in information diffusion among cities requires metrics not only of population composition as provided by detailed agent classes but also of intra-city forces that either impede or foster information diffusion. In this vein,

metrics of intra-city heterogeneity, population density, information access constraints, etc., become relevant. Additionally, if the clustering analyses are to provide operational guidance for policy decisions, they must directly relate to population descriptors used by the IRS, vice those sociodemographic variables found in census data. Thus, assessments of similarities in information diffusion characteristics among cities must also include metrics that describe populations in terms relevant to taxpayer categories.

Our current conceptualization of a city-matching analysis envisions it as based on agent-classes and consisting of three components:

- (1) Matching on global, city characteristics that include city-level summary metrics and metrics of population heterogeneity within a city (i.e., Herschall-Herfendorfer Heterogeneity Index).
- (2) Information Access Constraints, which are estimated from city sociodemographics and available sociodemographic research on literacy, internet access, and newspaper readership, for example.
- (3) Tax-payer Categories to make findings actionable.

3.1 Agent-class Revision and Observed Characteristics

As a first step toward a city matching analysis, we revised our binning scheme to use variables that more directly capture social context, hence the information dispersion characteristics of a city. A notable addition to the agent-class level of description is the estimate of an agent's social network size. For each person in a city, we created a rough estimate of their social network size by considering length of tenure in their current home and the type of home. More sophisticated metrics of an agent's social network may be included in future analyses. The revised binning scheme (Version 3.0) is shown in Table 2. The source data remains the Census 2000 5% PUMS data set.

Table 2: Revised PUMS Data Bins (Version 3.0)

Mapped	#		PUMS Source	Description
Variable	Bins	Bin Values	Variable(s)	(and Notes)
arace	5	Asian, Black, White, Other,	RACE1,	Race (using pre-2000
		Hispanic	HISPAN	census definitions)
agebin	3	0-29, 30-60, 61+	AGE	Age
asex	2	Male, Female	SEX	Gender
ams	2	Married, Not Married	MARSTAT	Marital status
akids	3	0, 1, 2+	P18	Children under 18 yrs
				in household
aed	4	No High School Diploma,	EDUC	Educational attainment
		HSD/Some College, BA/BS,		
		Professional/Grad		
aocc	9	White Collar, Agriculture, Blue	OCCCEN5	Occupation (Census
		Collar, Military, Unemployed		Bureau categories)

Mapped Variable	# Bins	Bin Values	PUMS Source Variable(s)	Description (and Notes)
ali	2	Linguistically Isolated, Not Linguistically Isolated	LNGI	Linguistic isolation (household ability to understand English)
abuilding	3	Single Family House, Near a Few, Large Apartment Complex/GQ	BLDGSZ	Building size
atenure	4	Group Quarters, within 1 year, within 2-4 years, 5+ years ago	YRMOVED	Year household moved to current home
ainctot	9	Missing, Loss, None, <15K, <30K, <50K, <80K, <120K, 120K+	INCTOT	Total income
aincnw	4	Loss, None, <u.s. median+<="" median,="" td="" u.s.=""><td>INCINT, INCRET, INCSS, INCSSI, INCPA, INCOTH</td><td>Sum of non-wage income</td></u.s.>	INCINT, INCRET, INCSS, INCSSI, INCPA, INCOTH	Sum of non-wage income
ahapi	5	None or no income, Quartile 1, Q2, Q3 Q4	SMOCAPI, GRAPI	Housing expenses as percentage of income
apov	3	Not determined, Poverty, Not Poverty	POVERTY	Living in poverty status
alocsn	3	Small, Medium, Large	n/a	Social network size (derived from mapped variables abuilding and atenure)

Version 3.0 of our binning scheme has a total of 251,942,400 possible agent-classes. When the 5% PUMS data for all 297 metropolitan areas is sorted into bins, 266,279 of the possible agent-classes were observed to contain at least one agent. Of the observed agent-classes, 96,628 are unique to a single city and 75,948 are unique to exactly two cities. Therefore, approximately 65% of the observed agent-classes are local to one or two cities – making them relatively rare agent-classes from a national perspective. All cities included in the study contain unique agent classes and agent classes which are present in only two cities.

The prevalence of rare agent classes indicates that the social context provided by each city is idiosyncratic to some degree. As can be seen in Table 3, between 1% and 2% of a city's population is comprised of rare agent-classes. Table 4 and Table 5 show the cities with the highest proportion of rare agent-classes, measured by the proportion of the population comprised of unique agent classes and agent classes present in only two cities, respectively. By each measure, Honolulu, HI ranks highest.

Table 3: Proportion of City Population in Rare Agent-Classes

Metric	Unique Agent Classes	Agent Classes in Two Cities Only
Mean	0.9874%	0.7937%
Standard Deviation	0.6672%	0.4796%
Minimum	0.1703%	0.1699%
Maximum	5.9608%	4.0517%

Table 4: Cities with the Highest Proportion of Unique Agent Classes

Census Bureau Metropolitan Area Name	Proportion of Population	
Honolulu, HI MSA	5.9608%	
Flagstaff, AZUT MSA	3.6542%	
Jersey City, NJ PMSA	3.6026%	
Yuba City, CA MSA	3.5595%	
Miami, FL PMSA	3.2540%	

Table 5: Cities with the Highest Proportion of Agent classes found in Exactly Two Cities

Census Bureau Metropolitan Area Name	Proportion of Population
Honolulu, HI MSA	4.0517%
San Francisco, CA PMSA	2.5991%
Jersey City, NJ PMSA	2.5158%
New York, NY PMSA	2.4536%
San Jose, CA PMSA	2.4408%

In contrast to the sizable number of rare agent-classes, a relatively small number of agent-classes are fairly common across cities: 162 agent classes are common to 95% or more of US cities and an additional 162 are common to 90% of cities (see Appendix D, Appendix E, for additional details). As can be seen in Table 7, approximately 20% of a city's population is comprised of agent-classes common to at least 90% of US cities. Table 8 shows that around 26% of Altoona, PA's population is comprised of agents-classes found in at least 95% of US cities. Table 9 shows

that around 14% of Bloomington, IN's population is comprised of agent-classes common to 90-95% of US cities. Finally, Table 10 details the three agent-classes found in every US city.

Table 6: Percent of City Population Comprised of Common Agent-classes.

Percent of City Population in Common Agent-Classes				
Metric	Common to 95- 100% of Cities	Common to 90- 95% of Cities		
# Classes	162	162		
Mean	13.46	7.43		
Standard Deviation	4.46	2.12		
Minimum	0.47	0.23		
Maximum	25.75	14.22		

Table 7: Top Five Cities with the Highest Percentage of Agent-classes Found in 95-100% of U.S. Cities.

Cities with Highest % of "95-100% Common" Agents		
Census Bureau Metropolitan Area Name	Percent of Population	
Altoona, PA MSA	25.75	
Johnstown, PA MSA	25.42	
Sharon, PA MSA	23.68	
DuluthSuperior, MNWI MSA	23.11	
Williamsport, PA MSA	21.88	

Table 8: Top Five Cities with the Highest Percentage of Agent-classes Found in 90-95% of U.S. Cities.

Cities with Highest % of "90-95% Common" Agents			
Census Bureau Metropolitan Area Name	Percent of Population		
Bloomington, IN MSA	14.22		
St. Cloud, MN MSA	12.76		
State College, PA MSA	12.54		
Lafayette, IN MSA	12.14		
La Crosse, WIMN MSA	11.91		

Table 9: Agent-classes Obse	erved in Every City.
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		Agent Class	
Agent Attribute	1	2	3
Race	White	White	White
Gender	female	female	Female
Age Group	middle	Senior	Senior
Marital Status	married	married	Single
Number of Children	0	0	0
Education	HS	HS	HS
Occupation	White Collar	unemployed	Unemployed
Linguistic Isolation	No	No	No
Local Social Network	Medium	Medium	Medium
Total Income	15-30K	0-15K	0-15K
Non-wage Income	< U.S. Md	> U.S. Md	> U.S. Md
Housing Expenses API	U.S. Quartile 1	U.S. Quartile 1	U.S. Quartile 4
Living in Poverty	No	No	No

3.2 Social Distance Construction

We used the revised binning scheme (Version 3.0) to construct City Attribute Profiles (CAPs) that serve as input for creating a city-matching index for each pair of cities (i.e., a new social distance metric). The city-matching index is based on CAPs in which one subset of elements in the CAP vector describes city characteristics (i.e., summary metrics), a second subset describes city-specific information access constraints, and a third subset describes city-specific tax-payer categories.

The next two sections briefly elaborate on the elements of the new CAP vector associated with information access constraints and tax-payer categories. We then describe how the city-match index is computed and the results of an illustrative city-clustering analysis.

3.2.1 Information Access Constraints

CAPs based solely on agent-classes roughly index the impact that agent homophily (i.e., love of the same, a term used by sociologists to describe the tendency of individuals to associate and bond with similar others) within a city will have on information diffusion. Information access constraints will also impact the diffusion of information within a society – an issue described briefly below.

There are a number of ways in which an individual's access to information may be limited. For example, the individual may be illiterate in which case information from newspapers, the internet, letters would be less accessible. As another example, individuals may for financial, religious or

other reasons not have access to the internet. In these cases information disseminated via email or the web would be less likely to reach them. For the U.S. the key access constraints appear to be illiteracy, internet penetration, newspaper readership, radio listenership, and size of an individual's social network. For additional details on the extent and characteristics of these access constraints, other than the social network, see [14]. In this report, our concern is with characterizing variation across cities in terms of access. The goal is twofold:

- (1) to identify the fraction of the city that may have limited information access and
- (2) cluster cities by type of access.

In the U.S. at this point in time, radio listenership is nearly universal. The issue is not do individuals have access to the radio, but which station are they listening to and when. The only recommendation for effective message dissemination here is to choose the set of stations with largest listenership that cover listening styles in that region and provide information at multiple points in the day.

As for the other access constraints, variables that are related to access are: age, race, gender, occupation, income and education. In the case of gender and race, we are simply noting a correlation not stating any form of causation. For each of these variables the break down in access per city for illiteracy, internet access, and newspaper readership is shown in Appendices F, G, and H, respectively.

3.2.2 Tax-payer Categories

Taxpayer categories will influence information diffusion to the degree they are related to sociodemographic variables associated with homophily. Our decision to incorporate elements associated with taxpayer categories into the new CAPs, therefore, is not driven primarily by considerations of information diffusion. Rather, our primary reason for incorporating these elements into city-matching CAPs is to make analytical results more actionable (i.e., more directly related to IRS policy decisions). These elements of the CAPs are elaborated below.

There are a number of factors that influence what taxes and the amount of taxes paid. For example, only individuals with children and low incomes or simply a very low income may claim the EITC. Whether tax credits or tax avoidance scams, factors that influence the level of taxes that should be paid in the US are the level of income, whether the income is from wage or non-wage sources, number of children, change in residence, and special credits for various behaviors such as energy and phone behavior. The goal in this section is twofold:

- 1) to identify the fraction of the city that may have specialized tax payer needs, and
- 2) cluster cities by these tax payer needs.

As a caveat, this work is based on census data and is looking at general aspects of tax-paying, not peculiarities due to special onetime tax credits such as the phone rebate. As such, census indicators of the relevant factor are used in this study which may or may not match the IRS categories perfectly. For example, we use poverty level and census reported household incomes which are not exactly the same as IRS single or married, filing jointly incomes. Nevertheless, the categories produced here should be close enough for city characterization.

The census variables related to taxpaying categories are:

- o Age
- Number of children
- o Income, wage
- o Income, non-wage
- o Number of years in new home
- o Poverty.

3.2.3 Calculating the City-match Index

Elements of CAPs are associated with city-level metrics and city-level summaries of social, demographic, and economic characteristics of city inhabitants. For the analysis described in this report, city-level metrics included population and population density. City-level summaries included categorical and continuous sociodemographic variables and indices of sociodemographic heterogeneity. For categorical variables, the proportion of city population comprised by each gender (male, female), marital status (married, not married), number of children (0, 1, 2+), and poverty status (living in poverty, not living in poverty) category served as the city-level summary metric. For continuous variables, the median of age, total income, non-wage income, and housing expenses served as the city-level summary. Finally, Herschall-Herfendorfer Indices of sociodemographic heterogeneity were computed for race, occupation, housing, and tenure. The Herschall-Herfendorfer index of heterogeneity for each sociodemographic variable was calculated by subtracting the sum of the squared proportions of a city's population comprised by each category of the sociodemographic variable from one:

$$HH_{SD} = 1 - \Sigma Prop(bin_i)^2$$

Each attribute (i.e., element) in the resulting CAP (i.e., vector) was then categorized as being High, Medium, or Low by performing a tertiary split on the attribute's distribution across all cities. Once the city-matching CAPs were created, we calculated a city-match index for each pair of CAPs by summing the match value for each attribute, per the following look-up table.

Table 10: Look-up Table for Attribute Match Value.

		City 2		
		High	Medium	Low
ity 1	High	1	.5	0
Cit	Medium	.5	1	.5
•	Low	0	.5	1

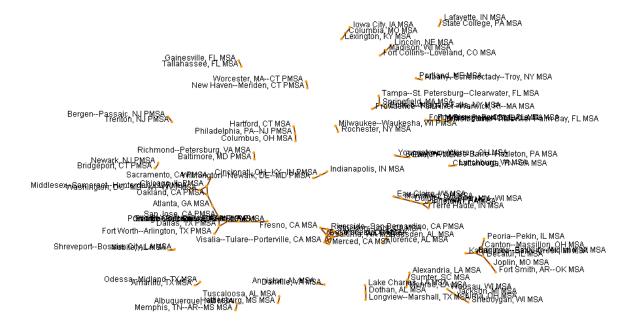
3.3 Clustering Operations

3.3.1 City-match Index

When social distances among cities are computed according to the city-match index, a few cities are highly similar (see Figure 10). This means that a person living in one of these cities who

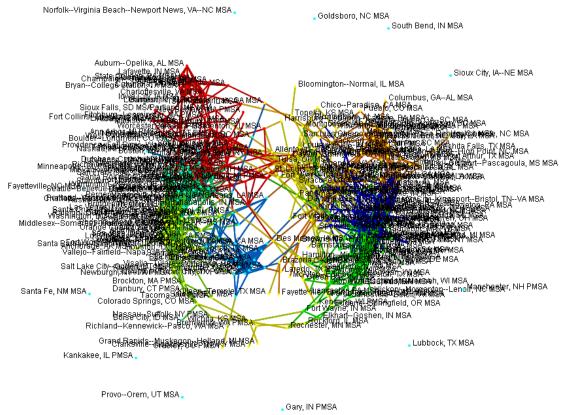
moves to another one, will experience the new city as having a similar "feel" in terms of diversity, age, race, etc. (i.e., the social contexts are highly similar). From a taxpaying perspective, however, this analysis does not tell us whether there are similar tax issues in the cities.

Figure 10. Network Graph of Highly Similar Cities.



To get at factors relevant to taxpaying, we defined a city network where a tie exists between two cities if they have at least 85% of their attributes in common. We then performed a Concor grouping analysis in ORA. Concor clusters nodes (i.e., cities) into a group if those nodes are connected to the same/similar set of other nodes (cf. cliques). Concor clustering in ORA suggests nine distinctive groups, depicted by coloring in **Error! Reference source not found.**

Figure 11. Concor Clustering of Cities.



As can be seen in Figure 12, the city clusters are relatively independent of geographical location. The lack of a discernable pattern in the geo-location of Concor groups implies that policy decisions based on regional considerations will not be appropriate.

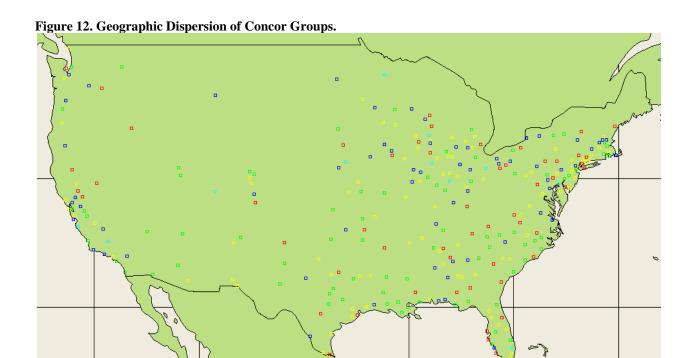


Table 11 lists notable attributes of the Concor groups found in the city-matching analysis that may be relevant to the selection of intervention strategy. The descriptions below highlight those attributes on which the group stands out (i.e., is notably higher or lower than the mean attribute value across Concor groups). Two things to notice about Table 12 are: (1) it begins to give us insight into the kinds of taxpayers per Concor group but it does not tell us about what the best kinds of service to provide them is, and (2) some of the groups (e.g., group 3) provide no guidance – they are unremarkable with respect to taxpayer categories.

Table 11: Sociodemographic Characteristics of Concor Groups.

Concor Group	Attribute
1	New tax payers, low income, small soc net, military, many below poverty, African-American
2	Population approx. 200,000, Low density, high school education, blue collar, immobile
3	White, high school education
4	Low density, highly educated, new tax payers, many no kids, not married, moved recently
5	Huge land area, Highly educated, Pop = 2 mil, high income, large soc net, white collar, Asian, moved recently, high density

6	Population approx. 200,000, Low density, many seniors, more disposable income, married, immobile
7	Huge land area, Pop = 1 mil, new tax payers, high proportion Spanish speaking, little education, much income spent on housing, many kids, agricultural, many below poverty, Hispanic, moved recently
8	Pop = 1.25 mil+, kids, highly educated, large soc net

Taking a closer look at Group 4, for example, we find one of our test-cities⁸, Hartford, to be a central city in the network of cities (see Figure 13). The cities within this group have populations comprised largely of highly educated, single citizens with no children who have relocated relatively recently, new tax payers, living in a city with low social density (i.e., count of people per land area). The low social density, recent move, and high education attributes of this group suggest that interventions involving the use of internet, direct mail or newspapers will be as effective as providing service centers or interventions that foster learning by word-of-mouth.

Figure 13. Network of Cities in Concor Group 4.

As another example, in Group 5, we find a network of large, socially dense cities (population greater than 2 million and large land area) comprised of highly educated, white-collar workers

 $^{^{8}}$ Four cities were selected for initial simulation-based research for the IRS: Hartford, Orlando, Kansas City, and San Diego.

with high incomes who have recently relocated, and a higher than average Asian population. Two test-cities, Orlando and San Diego, are found in this group (see Figure 14). The high Asian population indicates bi-lingual interventions will be necessary. The high social density indicates the use of opinion-leaders may be effective, and that information will diffuse relatively rapidly.

Figure 14. Network of Cities in Concor Group 5.

The city-matching analysis improves on the detailed agent-class analysis in that it is based on CAPs that are more tractable, making it easier to rapidly replicate analyses with other data (e.g., alternative binning schemes, alternative variables). Furthermore, the city-matching analysis provides more information about intervention selection than did the agent-class analysis. This added information is in terms of the attributes associated with each cluster. However, all groups found with this analysis are not equally informative. Group 9, for instance, is comprised of all cities that are not highly similar to any other cities.

3.3.2 Modified City-match Index

In an attempt to increase the tax-relevant information yield of a city-matching analysis, we removed the elements of city-matching CAPs associated with city summary characteristics, retaining only those attributes associated with information access constraints and taxpayer categories. Subsequent Concor clustering of cities based only on taxpayer categories and information access constraints produced groups different from those found when using all elements of the CAP in the prior analysis (see Figure 15).

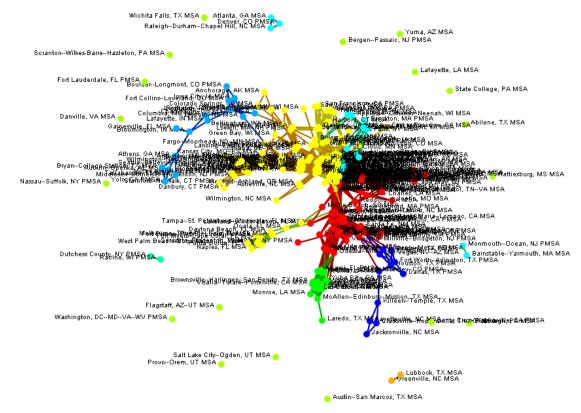


Figure 15. Similarity in Taxpayer Categories and Access Constraints.

As depicted in Figure 16, closer examination of the network shows several large clusters, accounting for 95 of the cities. Figures 17 and 18 provide close-ups of the largest cluster and a large cluster, respectively.

Figure 16. Large Clusters Account for 95 Cities.

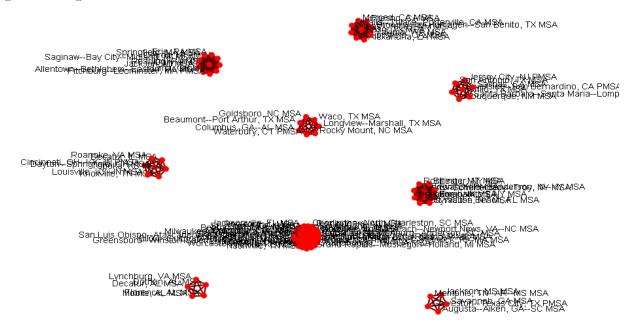


Figure 17. Largest City Cluster.

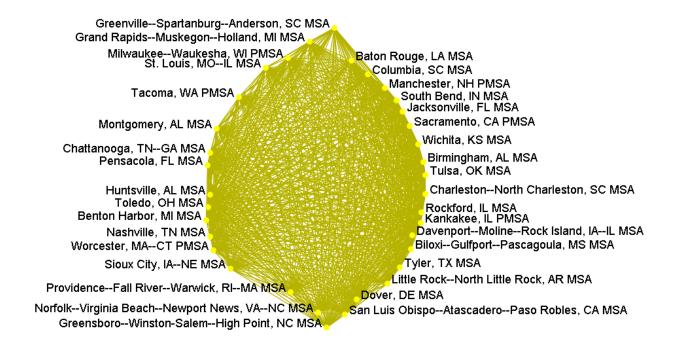
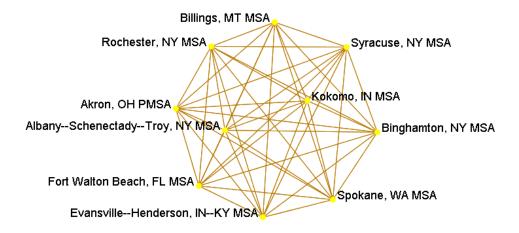


Figure 18. A Large City Cluster.

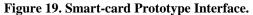


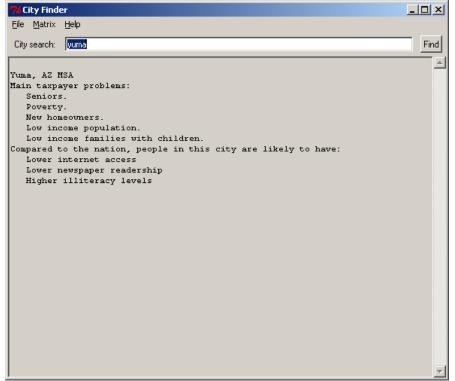
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Based on this analysis, we concluded that when we categorize cities based only on attributes associated with taxpayer categories and information access constraints, we still do not obtain adequate information about intervention selection because the analysis only accounts for 95 of the 297 cities.

3.4 Smart-card Prototype

As the social distance metric is refined and validated, the issue of how to best support IRS decisions about intervention strategies must also be addressed. One possibility is a *smart-card* concept that associates cost-effective intervention strategies with cities or city-types via their taxpaying/information access attributes. A simple prototype, which displays taxpayer data at the city level has been built and demonstrated (see Figure 19).





In addition to city level results, the Concor group data could be appended to enable searching at the group level. Figure 20 shows a tabulation of the Concor groups found in the modified city-matching analysis in support of this concept. The icons show associated mechanisms for interventions which are likely to be effective in the group.



Regardless of how the smart-card concept is implemented, the general issue that needs to be addressed is one of how to provide IRS personnel with flexible access to the research findings in a manner that most directly supports the policy decisions that must be made.

4 Conclusion and Future Directions

We began this project with a simple approach for finding clusters of similar cities: define agent-classes as combinations of socioeconomic variables relevant to IRS interventions, characterize cities in terms of their agent-class profiles, and find clusters of cities with similar profiles. The main assumption underlying the agent-class analysis framework was that cities with similar agent-class profiles would form natural clusters of socially similar cities. Results from extensive agent-class analyses show this to be untrue. Computer memory limitations associated with 32-bit SAS in MS-Windows prevented the use of most of the available clustering techniques, except for multi-dimensional scaling. The poor fit of MDS solutions to various binning schemes, however, provided little information for identifying city clusters.

An exploratory deep-structure analysis in ORA led to development of an alternative analysis framework – the city-matching analysis. The city-matching analysis, while based on agent-classes, augments the agent-class analysis by shifting the focus of analysis to one more directly associated with the information diffusion characteristics of cities. It also relies on traditional social network analysis techniques, and provides explicit links to IRS classification schemes. Preliminary findings using this analysis framework appear promising.

The city-match index that forms the basis of the city-matching framework is substantially more complex than the agent-class profile that forms the basis of the agent-class framework. Additional research is needed to determine exactly how elements associated with city characteristics, information access constraints, and taxpayer categories should be integrated. The crux of the research issue concerns the derivation of social networks from data sets containing monadic attributes (e.g., socioeconomic variables typically found in census data). Given the difficulty of deducing adequate (and valid) social distance metrics from data containing only monadic attributes, it seems likely that an iterative approach in which a social distance metric is progressively refined (and validated) through multi-agent simulation will be required.

Appendix A. Commonly Occurring Agent-classes

Table 12: City-class Analysis: Commonly Occurring Agent Classes.

Table 12. City-cia	City	Percent	Mean % of	Std. of %	Minimum %	Maximum %
Agent Class	Count	Cities	Agent Pop.	Agent Pop	Agent Pop.	Agent Pop.
wf1n01WnM_111n	289	95%	0.079762	0.052267	0.002278	0.306737
wf1n01WnM_112n	294	95%	0.101046	0.060884	0.006763	0.387816
wf1n01WnM 113n	292	95%	0.071709	0.041723	0.002875	0.332526
wf1n01WnM_114n	289	95%	0.071720	0.052578	0.003646	0.329489
wf1n01WnM_212n	284	95%	0.075366	0.055219	0.005695	0.529341
wf1n10unM_011n	285	95%	0.050693	0.034411	0.000854	0.180763
wf1n10unM_012n	293	95%	0.060429	0.030980	0.003015	0.233639
wf1n11WnM_112n	287	95%	0.052190	0.031720	0.002674	0.173251
wf1n20WnM_112n	289	95%	0.065908	0.042815	0.002705	0.226949
wf1n20unM_011n	292	95%	0.071180	0.045922	0.004445	0.306035
wf1n20unM_012n	295	95%	0.101693	0.052379	0.002469	0.277832
wf1n20unM_013n	290	95%	0.078459	0.042455	0.002469	0.278531
wf1n20unM_014n	283	95%	0.052684	0.028665	0.003780	0.172275
wf1n20unV1_014n	286	95%	0.057367	0.036608	0.002278	0.218022
wf2m01WnM_011n	283	95%	0.043415	0.028880	0.001209	0.155772
wf2m01WnM 111n	296	95%	0.144225	0.103305	0.004129	0.529870
wf2m01WnM 112n	294	95%	0.131413	0.071544	0.009255	0.390305
wf2m01WnM_113n	294	95%	0.131413	0.046225	0.009233	0.317887
wf2m01WnM_114n	291	95%	0.070237	0.040223	0.001281	0.209056
wf2m01WnM 121n	289	95%	0.054009	0.037070	0.000963	0.211290
wf2m01WnM_211n	297	95%	0.205865	0.037349	0.004841	0.633772
wf2m01WnM_211n	296	95% 95%	0.203803	0.114038	0.013682	0.603778
wf2m01WnM_213n	295	95% 95%	0.217092	0.057368	0.013082	0.405968
	293					
wf2m01WnM_214n		95%	0.060594	0.033172	0.003628	0.183521
wf2m01WnM_221n	290	95%	0.075510	0.049194	0.004822	0.328297
wf2m01WnM_222n	288	95%	0.063715	0.041369	0.002282	0.278014
wf2m01WnM_311n	294	95%	0.122721	0.056508	0.006375	0.356912
wf2m01WnM_312n	295	95%	0.122201	0.056693	0.008047	0.333828
wf2m01WnM_321n	285	95%	0.065909	0.038484	0.001244	0.217647
wf2m01WnS_112n	286	95%	0.051118	0.032301	0.002550	0.254605
wf2m01WnS_113n	284	95%	0.050194	0.030979	0.001580	0.147904
wf2m01WnS_114n	283	95%	0.040027	0.029220	0.001247	0.177260
wf2m01WnS_211n	284	95%	0.054707	0.040748	0.000975	0.235043
wf2m01WnS_212n	293	95%	0.094334	0.054036	0.002999	0.294649
wf2m01WnS_213n	291	95%	0.077948	0.044723	0.002488	0.237108
wf2m01WnS_312n	284	95%	0.061062	0.034632	0.003689	0.228495
wf2m01unM_011n	294	95%	0.115514	0.075601	0.006122	0.468372
wf2m01unM_012n	288	95%	0.081007	0.044889	0.002488	0.242648
wf2m01unM_013n	288	95%	0.058685	0.032015	0.003794	0.245467
wf2m02WnM_312n	283	95%	0.047877	0.029171	0.003049	0.296845
wf2m11WnM_111n	284	95%	0.053637	0.041146	0.001247	0.247700
wf2m11WnM_112n	293	95%	0.073184	0.046532	0.002488	0.289561
wf2m11WnM_113n	288	95%	0.057833	0.034730	0.002607	0.217529
wf2m11WnM_211n	288	95%	0.063292	0.045874	0.002488	0.258233

A	City	Percent	Mean % of	Std. of %	Minimum %	Maximum %
Agent Class	Count	Cities	Agent Pop.	Agent Pop	Agent Pop.	Agent Pop.
wf2m11WnM_212n	294	95%	0.100575	0.056515	0.005410	0.414301
wf2m11WnM_213n	288	95%	0.065285	0.037577	0.005550	0.231462
wf2m11WnS_113n	283	95%	0.042556	0.026650	0.002030	0.176941
wf2m11WnS_212n	284	95%	0.059951	0.036823	0.001417	0.178309
wf2m11WnS_213n	285	95%	0.053240	0.030057	0.002459	0.185241
wf2m21WnM_111n	287	95%	0.057806	0.043034	0.001281	0.241353
wf2m21WnM_112n	294	95%	0.116113	0.071059	0.008832	0.378238
wf2m21WnM_113n	293	95%	0.120260	0.070572	0.006783	0.402136
wf2m21WnM_114n	285	95%	0.073919	0.048862	0.004566	0.264894
wf2m21WnM_211n	292	95%	0.060494	0.044717	0.002327	0.238586
wf2m21WnM_212n	295	95%	0.127656	0.077163	0.006103	0.684556
wf2m21WnM_213n	293	95%	0.094837	0.054287	0.004414	0.320474
wf2m21WnM_312n	292	95%	0.071909	0.040765	0.002833	0.295168
wf2m21WnS_112n	288	95%	0.071565	0.046353	0.001281	0.293703
wf2m21WnS_113n	294	95%	0.107268	0.057042	0.001507	0.327313
wf2m21WnS_114n	290	95%	0.076069	0.040925	0.005379	0.266394
wf2m21WnS_212n	289	95%	0.086886	0.058132	0.000890	0.351713
wf2m21WnS_213n	292	95%	0.091864	0.043871	0.003674	0.244007
wf2m21unM_013n	284	95%	0.052201	0.033154	0.004233	0.188247
wf2n01WnM_114n	283	95%	0.044193	0.023694	0.003446	0.134775
wf2n01WnM_211n	291	95%	0.060918	0.037852	0.003640	0.212735
wf2n01WnM_212n	292	95%	0.073913	0.040244	0.004369	0.191677
wf2n01WnM_213n	292	95%	0.083426	0.047507	0.004141	0.359814
wf2n01WnM_214n	287	95%	0.082956	0.041451	0.004694	0.243209
wf3m00unM_121n	296	95%	0.163318	0.101348	0.008828	0.633752
wf3m00unM_122n	296	95%	0.118764	0.073289	0.006692	0.439715
wf3m00unM_123n	292	95%	0.073260	0.047362	0.003987	0.258962
wf3m00unM_124n	286	95%	0.067217	0.042469	0.003732	0.214731
wf3m01WnM_121n	296	95%	0.111181	0.069025	0.005133	0.376686
wf3m01WnM_122n	291	95%	0.067345	0.041791	0.002705	0.212649
wf3m01WnM_221n	291	95%	0.089193	0.050529	0.007123	0.327152
wf3m01unM 011n	294	95%	0.083333	0.045516	0.007119	0.298687
wf3m01unM_012n	284	95%	0.045879	0.024355	0.001799	0.166928
wf3m01unM_121n	297	95%	0.490439	0.230434	0.045731	1.358943
wf3m01unM_122n	296	95%	0.290223	0.152911	0.022069	1.048026
wf3m01unM 123n	294	95%	0.149193	0.082863	0.015201	0.573126
wf3m01unM_124n	295	95%	0.138075	0.082011	0.002787	0.644564
wf3m01unM_221n	296	95%	0.122231	0.066246	0.011332	0.534972
wf3m02unM_121n	285	95%	0.058046	0.036285	0.004047	0.234947
wf3n00unM_121n	286	95%	0.073224	0.050528	0.004614	0.293211
wf3n00unM 122n	292	95%	0.095131	0.060589	0.005276	0.398576
wf3n00unM_123n	293	95%	0.111981	0.070456	0.004756	0.423545
wf3n00unM_124n	296	95%	0.161268	0.087948	0.007463	0.545783
wf3n00unM_124n	291	95%	0.121384	0.084360	0.006783	0.529814
wf3n00unM_222n	288	95%	0.062977	0.042894	0.005974	0.276180
wf3n00unN_12z2n	286	95%	0.087382	0.066153	0.003074	0.476831
wf3n01WnM_221n	283	95%	0.043032	0.028590	0.003023	0.196262
wf3n01WnM_222n	284	95%	0.055952	0.032493	0.003013	0.190202
wf3n01WnM_224n	284	95%	0.054541	0.032493	0.002130	0.197578
w151101 W 111W1_22411	∠0+	JJ /U	0.034341	0.030307	0.003737	0.100545

A4 CV	City	Percent	Mean % of	Std. of %	Minimum %	Maximum %
Agent Class	Count	Cities	Agent Pop.	Agent Pop	Agent Pop.	Agent Pop.
wf3n01unM_121n	288	95%	0.066080	0.040894	0.002595	0.251112
wf3n01unM_122n	294	95%	0.095804	0.057442	0.003417	0.328581
wf3n01unM_123n	296	95%	0.123693	0.068178	0.008237	0.405497
wf3n01unM_124n	297	95%	0.199459	0.093960	0.013510	0.544117
wf3n01unM_124y	294	95%	0.104646	0.055543	0.011533	0.329588
wf3n01unM_221n	296	95%	0.114499	0.061365	0.008453	0.347444
wf3n01unM_222n	295	95%	0.145279	0.074574	0.008400	0.455129
wf3n01unM_223n	290	95%	0.097467	0.054275	0.005680	0.335043
wf3n01unM_224n	294	95%	0.115832	0.061538	0.004522	0.417299
wf3n01unM_321n	293	95%	0.079953	0.042420	0.010912	0.261398
wf3n01unS_12xn	286	95%	0.087449	0.061872	0.004853	0.561475
wm1n01BnM_111n	284	95%	0.046452	0.037263	0.002486	0.220118
wm1n01WnM_111n	288	95%	0.067372	0.046533	0.003735	0.268794
wm1n01WnM_112n	293	95%	0.077646	0.042232	0.004822	0.272961
wm1n01WnM_212n	284	95%	0.066851	0.041296	0.005712	0.326292
wm1n10WnM_112n	286	95%	0.054497	0.036365	0.003469	0.190277
wm1n10unM_011n	286	95%	0.054756	0.035172	0.003845	0.205718
wm1n10unM_012n	289	95%	0.064083	0.034689	0.002078	0.212140
wm1n10unM_013n	283	95%	0.045920	0.025718	0.004049	0.212256
wm1n20WnM_112n	290	95%	0.060039	0.040912	0.002226	0.268793
wm1n20unM_011n	289	95%	0.068323	0.043819	0.001515	0.239898
wm1n20unM_012n	296	95%	0.105721	0.055487	0.002223	0.370342
wm1n20unM_013n	288	95%	0.075849	0.038562	0.005838	0.226885
wm1n20unS_012n	290	95%	0.058997	0.038689	0.003323	0.268961
wm1n20unS_013n	288	95%	0.062666	0.035755	0.004525	0.176905
wm2m01BnM_311n	294	95%	0.084373	0.063370	0.003132	0.407082
wm2m01BnM_312n	291	95%	0.096081	0.056155	0.004837	0.380554
wm2m01BnM_321n	286	95%	0.081276	0.069994	0.002687	0.414631
wm2m01BnM_421n	288	95%	0.068259	0.057999	0.002097	0.397813
wm2m01WnM_311n	285	95%	0.057494	0.037797	0.003223	0.221389
wm2m01WnM_312n	289	95%	0.074185	0.037970	0.002488	0.206579
wm2m01WnM_313n	284	95%	0.047752	0.026132	0.002419	0.169909
wm2m01WnM_321n	286	95%	0.059176	0.041610	0.003845	0.224923
wm2m01WnM_322n	290	95%	0.061487	0.037636	0.001515	0.217730
wm2m01WnM_411n	284	95%	0.046898	0.027588	0.002488	0.220274
wm2m01WnM_421n	289	95%	0.063640	0.037963	0.001851	0.219321
wm2m01WnM_422n	289	95%	0.058223	0.031937	0.005285	0.201201
wm2m02WnM_421n	284	95%	0.050722	0.034368	0.002076	0.208101
wm2m11BnM_312n	285	95%	0.062555	0.040976	0.002563	0.222651
wm2m21BnM_312n	292	95%	0.090889	0.060114	0.006029	0.405394
wm2m21BnM_313n	287	95%	0.080131	0.051499	0.001304	0.281810
wm2m21BnS_312n	284	95%	0.066748	0.049418	0.001418	0.273388
wm2m21BnS_313n	289	95%	0.077987	0.048098	0.002122	0.255565
wm2m21WnM_312n	289	95%	0.071332	0.043154	0.005059	0.262501
wm2m21WnM_313n	288	95%	0.060511	0.036871	0.004401	0.269896
wm2m21WnS_313n	292	95%	0.065764	0.038489	0.002756	0.215690
wm2n01BnM_211n	284	95%	0.056626	0.039755	0.002223	0.255874
wm2n01BnM_311n	286	95%	0.061763	0.041858	0.003594	0.246386
wm2n01WnM_212n	284	95%	0.049656	0.030654	0.002282	0.191654
	201	, , , ,	3.017020	0.000001	0.002202	0.171051

Agent Class	City Count	Percent Cities	Mean % of Agent Pop.	Std. of % Agent Pop	Minimum % Agent Pop.	Maximum % Agent Pop.
wm3m00unM 121n	286	95%	0.054001	0.045896	0.000854	0.385082
wm3m00unM_122n	287	95%	0.070714	0.051534	0.002278	0.257124
wm3m00unM_123n	284	95%	0.053635	0.037622	0.001244	0.188728
wm3m00unM_124n	284	95%	0.058042	0.039572	0.001507	0.299552
wm3m00unM_221n	293	95%	0.113213	0.081194	0.007256	0.534401
wm3m00unM_222n	287	95%	0.078752	0.057410	0.002728	0.389998
wm3m01BnM_221n	284	95%	0.058111	0.045363	0.001437	0.265227
wm3m01BnM_321n	288	95%	0.066440	0.045296	0.001130	0.249915
wm3m01WnM_221n	291	95%	0.063707	0.040881	0.001709	0.217067
wm3m01WnM_321n	295	95%	0.082706	0.044921	0.005582	0.248537
wm3m01WnM_421n	292	95%	0.054323	0.027917	0.002782	0.172821
wm3m01unM_121n	287	95%	0.053139	0.041235	0.001048	0.210019
wm3m01unM_122n	289	95%	0.069885	0.049425	0.002377	0.329588
wm3m01unM 123n	288	95%	0.052319	0.037935	0.005712	0.235461
wm3m01unM_221n	294	95%	0.209739	0.126754	0.012056	0.740356
wm3m01unM_222n	295	95%	0.143776	0.090008	0.004414	0.481394
wm3m01unM 223n	289	95%	0.064738	0.042555	0.004917	0.291434
wm3m01unM_321n	294	95%	0.175439	0.092855	0.015643	0.756592
wm3m01unM_322n	283	95%	0.056094	0.037301	0.003057	0.267080
wm3m02unM_321n	284	95%	0.052517	0.031814	0.004345	0.204013
wf1m01WnS_212n	277	90%	0.049635	0.033727	0.000635	0.188737
wf1m01WnS_212n	273	90%	0.042475	0.031013	0.001424	0.232028
wf1m11WnS_212n	268	90%	0.039319	0.028479	0.000446	0.168861
wf1m21WnS_113n	274	90%	0.044412	0.032400	0.000648	0.178665
wf1n01WnM_211n	277	90%	0.049517	0.032400	0.004468	0.217230
wf1n01WnM_213n	274	90%	0.057579	0.039083	0.003269	0.328313
wf1n01WnS_112n	282	90%	0.048194	0.036461	0.003209	0.237746
wf1n01WnS_112n	278	90%	0.046607	0.033720	0.002261	0.237395
wf1n01WnS_114n	276	90%	0.060933	0.056057	0.003024	0.354594
wf1n01WnS_114n	269	90%	0.165974	0.286832	0.003024	1.886012
wf1n01WnS_11xn	279	90%	0.341161	0.467011	0.005032	3.945229
wf1n01WnS_212n	273	90%	0.054817	0.038606	0.003032	0.355588
wf1n10WnM_111n	274	90%	0.043424	0.031463	0.003132	0.192082
wf1n10WnM_112n	279	90%	0.057526	0.033830	0.003987	0.182404
wf1n10WnM_113n	273	90%	0.037820	0.026367	0.003367	0.173620
wf1n10unM_013n	277	90%	0.044577	0.026680	0.001551	0.202193
wf1n11WnM_111n	272	90%	0.040780	0.028469	0.001095	0.146796
wf1n11WnM_113n	269	90%	0.037364	0.021388	0.004414	0.110523
wf1n20WnM 111n	275	90%	0.041041	0.030749	0.001019	0.179500
wf1n20WnM 113n	271	90%	0.048664	0.030738	0.002370	0.192050
wf1n20WnS_113n	275	90%	0.034936	0.022618	0.002040	0.132030
wf1n20unS_013n	281	90%	0.062516	0.035202	0.002488	0.270906
wf1n20unS_014n	274	90%	0.047654	0.025304	0.002782	0.134051
wf2m01WnM_012n	274	90%	0.036760	0.023304	0.002782	0.124194
wf2m01WnM_122n	274	90%	0.043313	0.021334	0.002833	0.124194
wf2m01WnM_313n	279	90%	0.064289	0.029307	0.003147	0.219223
wf2m01WnM_322n	274	90%	0.050392	0.029900	0.003204	0.219223
wf2m01WnM_411n	269	90%	0.034384	0.019307	0.002662	0.201433
wf2m01WnS_111n	268	90%	0.035916	0.019307	0.002002	0.236652
W121101 W110_11111	200	JU /U	0.033710	0.02/941	0.001331	0.230032

Agent Class	City Count	Percent Cities	Mean % of Agent Pop.	Std. of % Agent Pop	Minimum % Agent Pop.	Maximum % Agent Pop.
wf2m01WnS_214n	270	90%	0.038084	0.024366	0.003024	0.203994
wf2m01WnS_311n	269	90%	0.034743	0.022711	0.001709	0.117182
wf2m01unM 014n	279	90%	0.050210	0.025801	0.003726	0.137314
wf2m01unM_121n	274	90%	0.033119	0.021400	0.005214	0.133572
wf2m02WnM_311n	281	90%	0.045141	0.024791	0.006265	0.127576
wf2m02WnM_321n	275	90%	0.034538	0.023920	0.002614	0.120412
wf2m03WnM_311n	268	90%	0.035883	0.028804	0.003089	0.215867
wf2m11WnM_114n	274	90%	0.038181	0.021356	0.001134	0.109715
wf2m11WnM 311n	277	90%	0.043357	0.029557	0.004910	0.194032
wf2m11WnM_312n	282	90%	0.056582	0.030368	0.006051	0.189837
wf2m11WnS_112n	270	90%	0.037232	0.029248	0.000427	0.210879
wf2m21WnM_013n	270	90%	0.032243	0.017204	0.002834	0.108394
wf2m21WnM_311n	272	90%	0.037680	0.024214	0.002276	0.149350
wf2m21WnS_214n	274	90%	0.045497	0.026413	0.004452	0.151147
wf2m21WnS 312n	282	90%	0.051737	0.034671	0.001281	0.254661
wf2m21WnS_313n	274	90%	0.042153	0.024509	0.002136	0.142129
wf2m21unM_011n	272	90%	0.040560	0.029124	0.001579	0.246813
wf2m21unM_012n	280	90%	0.056745	0.033067	0.002598	0.173227
wf2m21unM_014n	272	90%	0.048066	0.034663	0.004240	0.241224
wf2m21unS_013n	282	90%	0.050419	0.029985	0.000427	0.211826
wf2m21unS_014n	276	90%	0.048673	0.031422	0.001507	0.233503
wf2m22WnM_212n	274	90%	0.037885	0.025389	0.001655	0.160199
wf2m22WnM_312n	280	90%	0.048647	0.028317	0.002278	0.179349
wf2m22WnS_113n	271	90%	0.039562	0.025182	0.002958	0.160996
wf2m22WnS_312n	270	90%	0.035797	0.025192	0.002594	0.176076
wf2n01WnM_221n	272	90%	0.037690	0.026715	0.001482	0.155182
wf2n01WnM_222n	279	90%	0.038744	0.026771	0.004567	0.157314
wf2n01WnM_223n	282	90%	0.042990	0.031585	0.003960	0.300279
wf2n01WnM_224n	278	90%	0.046415	0.027318	0.001996	0.185006
wf2n01WnM_311n	277	90%	0.039914	0.025219	0.003132	0.188838
wf2n01WnM_312n	281	90%	0.059535	0.030999	0.003732	0.205286
wf2n01WnM_313n	271	90%	0.059718	0.032882	0.003269	0.165672
wf2n01WnM_321n	272	90%	0.040332	0.027104	0.001141	0.158576
wf2n01WnM_322n	274	90%	0.044385	0.026397	0.004522	0.194312
wf2n01WnM_323n	272	90%	0.042847	0.027048	0.001655	0.208239
wf2n01WnS_212n	272	90%	0.040759	0.026554	0.000680	0.154994
wf2n01WnS_213n	281	90%	0.046032	0.028283	0.003094	0.165672
wf2n01WnS_214n	279	90%	0.053817	0.036089	0.004452	0.216958
wf2n01unM_124y	272	90%	0.033415	0.023283	0.001920	0.145625
wf3m00unS_12xn	273	90%	0.068064	0.058095	0.002184	0.367968
wf3m01WnM_123n	277	90%	0.043039	0.027482	0.002488	0.190805
wf3m01WnM_124n	280	90%	0.039739	0.025792	0.002488	0.146795
wf3m01WnM_211n	271	90%	0.031520	0.022208	0.000838	0.156765
wf3m01WnM_222n	277	90%	0.037690	0.022218	0.004445	0.119572
wf3m01WnM_321n	282	90%	0.037747	0.021192	0.001709	0.160670
wf3m01unM_222n	274	90%	0.042000	0.030612	0.003559	0.259774
wf3m01unM_321n	272	90%	0.039705	0.026283	0.001339	0.188062
wf3m01unS_121n	279	90%	0.065372	0.076302	0.000890	0.691563
wf3m01unS_122n	276	90%	0.046339	0.050874	0.001027	0.560949

4.07	City	Percent	Mean % of	Std. of %	Minimum %	Maximum %
Agent Class	Count	Cities	Agent Pop.	Agent Pop	Agent Pop.	Agent Pop.
wf3m01unS_12xn	281	90%	0.065304	0.046960	0.002963	0.333787
wf3n00unM_221n	282	90%	0.054513	0.038534	0.004036	0.213803
wf3n00unM_223n	269	90%	0.042540	0.031345	0.004874	0.203013
wf3n00unS_124n	270	90%	0.037835	0.024806	0.003287	0.131139
wf3n01WnM_124n	278	90%	0.048638	0.027356	0.002065	0.167763
wf3n01WnM_223n	277	90%	0.046072	0.029070	0.003768	0.240681
wf3n01WnM_321n	278	90%	0.039391	0.022643	0.002705	0.182502
wf3n01unS_124n	277	90%	0.044872	0.030393	0.001244	0.160537
wm1n01BnM_112n	282	90%	0.045978	0.030321	0.001755	0.190277
wm1n01BnM_211n	277	90%	0.061898	0.047488	0.000718	0.247264
wm1n01BnM_212n	279	90%	0.065159	0.044454	0.004364	0.259385
wm1n01BnS_11xn	273	90%	0.093456	0.160983	0.002377	1.954041
wm1n01BnS_212n	277	90%	0.048645	0.041080	0.001162	0.301037
wm1n01BnS_213n	268	90%	0.039478	0.032184	0.000743	0.237395
wm1n01WnM_113n	282	90%	0.056692	0.037430	0.001956	0.295251
wm1n01WnM_114n	273	90%	0.061082	0.044786	0.003844	0.314721
wm1n01WnM_211n	277	90%	0.049966	0.031985	0.001507	0.188906
wm1n01WnM_213n	274	90%	0.053560	0.035704	0.004837	0.237322
wm1n01WnS_112n	269	90%	0.038070	0.030044	0.001281	0.194793
wm1n01WnS_11xn	279	90%	0.223841	0.294005	0.000921	2.268025
wm1n01WnS_212n	273	90%	0.050156	0.034585	0.001424	0.232344
wm1n10WnM_111n	272	90%	0.039477	0.029946	0.002354	0.195508
wm1n10unM_014n	269	90%	0.035323	0.021458	0.001281	0.164719
wm1n20WnM_111n	269	90%	0.036285	0.028077	0.000523	0.212842
wm1n20WnM_113n	268	90%	0.042344	0.027795	0.001675	0.138974
wm1n20unM_014n	274	90%	0.054255	0.031842	0.003248	0.154332
wm1n20unS_014n	277	90%	0.045447	0.027013	0.004024	0.163950
wm2m01BnM_211n	272	90%	0.038960	0.036417	0.001507	0.189531
wm2m01BnM_212n	278	90%	0.048613	0.036929	0.002327	0.214732
wm2m01BnM_213n	277	90%	0.037232	0.025875	0.001949	0.146148
wm2m01BnM_313n	281	90%	0.056991	0.037985	0.003417	0.224333
wm2m01BnM_322n	282	90%	0.061096	0.042031	0.002648	0.286888
wm2m01BnM_411n	281	90%	0.057426	0.045321	0.000854	0.255186
wm2m01BnM_412n	275	90%	0.048824	0.030421	0.003132	0.163331
wm2m01BnM_422n	273	90%	0.045594	0.030969	0.002065	0.226136
wm2m01BnS_312n	278	90%	0.055181	0.038014	0.002823	0.249502
wm2m01BnS_313n	268	90%	0.037833	0.023032	0.000784	0.132909
wm2m01WnM_212n	271	90%	0.040732	0.027467	0.001214	0.215373
wm2m01WnM_412n	275	90%	0.052855	0.025789	0.006860	0.177992
wm2m01WnS_312n	277	90%	0.042610	0.027031	0.001300	0.144939
wm2m01WnS_313n	270	90%	0.035598	0.023242	0.002212	0.208716
wm2m02WnM_422n	276	90%	0.046806	0.028767	0.002546	0.177907
wm2m02WnM_621n	269	90%	0.042281	0.024508	0.002182	0.160470
wm2m03WnM_421n	279	90%	0.042565	0.030275	0.000931	0.172098
wm2m11BnM_311n	269	90%	0.040588	0.036463	0.001639	0.223802
wm2m11BnS_312n	275	90%	0.043772	0.030618	0.001200	0.161963
wm2m11BnS_313n	271	90%	0.038067	0.025531	0.001851	0.172133
wm2m11WnM_312n	281	90%	0.046179	0.027849	0.002567	0.145304
wm2m11WnM_313n	270	90%	0.037149	0.021379	0.005060	0.146148

A gowt Class	City	Percent	Mean % of	Std. of %	Minimum %	Maximum %
Agent Class	Count	Cities	Agent Pop.	Agent Pop	Agent Pop.	Agent Pop.
wm2m11WnS_312n	268	90%	0.033082	0.023889	0.001229	0.134718
wm2m11WnS_313n	272	90%	0.034798	0.021355	0.002121	0.125544
wm2m21BnM_213n	270	90%	0.039796	0.031982	0.001724	0.198891
wm2m21BnM_311n	268	90%	0.044857	0.036701	0.001091	0.211314
wm2m21BnM_322n	269	90%	0.043123	0.036996	0.001050	0.258099
wm2m21BnM_412n	273	90%	0.052202	0.036770	0.002668	0.218585
wm2m21BnS_213n	269	90%	0.044893	0.038573	0.000959	0.259583
wm2m21BnS_214n	279	90%	0.042611	0.029056	0.001020	0.163056
wm2m21WnM_314n	268	90%	0.037315	0.024201	0.003374	0.129681
wm2m21WnM_412n	275	90%	0.049630	0.030107	0.005227	0.164459
wm2m21WnS_312n	279	90%	0.050471	0.037050	0.001275	0.223595
wm2m21WnS_314n	275	90%	0.045697	0.029356	0.003317	0.193571
wm2m21WnS_412n	278	90%	0.039565	0.025806	0.002370	0.245722
wm2m21WnS_413n	272	90%	0.041878	0.024265	0.001779	0.129986
wm2m22WnS_413n	271	90%	0.038351	0.024585	0.002278	0.150933
wm2n01BnM_212n	282	90%	0.054337	0.036571	0.002226	0.199123
wm2n01BnM_213n	280	90%	0.047616	0.029411	0.001522	0.171205
wm2n01BnM_214n	272	90%	0.042109	0.027815	0.004896	0.241976
wm2n01BnM_312n	282	90%	0.065929	0.040187	0.007226	0.231294
wm2n01BnS_312n	272	90%	0.044925	0.031818	0.002351	0.190696
wm2n01WnM_211n	273	90%	0.044537	0.028044	0.001996	0.142658
wm2n01WnM_213n	278	90%	0.047571	0.026961	0.002488	0.165904
wm2n01WnM_311n	275	90%	0.042349	0.024973	0.002612	0.155922
wm2n01WnM_312n	279	90%	0.058297	0.031341	0.004522	0.222199
wm2n01WnS_312n	272	90%	0.036058	0.023848	0.004634	0.171447
wm3m00unM_321n	277	90%	0.047715	0.032521	0.004369	0.219243
wm3m01BnM_222n	271	90%	0.043132	0.032618	0.000997	0.286334
wm3m01WnM_222n	279	90%	0.051897	0.033215	0.002732	0.213987
wm3m01WnM_322n	281	90%	0.042425	0.025337	0.002182	0.159077
wm3m01unM_124n	281	90%	0.061297	0.040874	0.004917	0.228497
wm3m01unM_224n	282	90%	0.054539	0.034104	0.004883	0.242518
wm3m01unM_421n	278	90%	0.057066	0.036291	0.001810	0.263021
wm3m02WnM_321n	268	90%	0.032467	0.020571	0.002674	0.161729
wm3m02WnM_421n	269	90%	0.034979	0.019198	0.002377	0.104592
wm3m02WnM_621n	268	90%	0.039832	0.031483	0.000753	0.306950

Appendix B. Number of Unique Agent-classes per City.

Table 13. Unique Agent-classes per City.

rabie 13. U	Count of Unique	er City.
City ID	Agent classes	Census Bureau Metropolitan Area Name
5600	9279	New York, NY PMSA
4480	7936	Los AngelesLong Beach, CA PMSA
1600	3675	Chicago, IL PMSA
8840	3090	Washington, DCMDVAWV PMSA
5000	2577	Miami, FL PMSA
7360	2156	San Francisco, CA PMSA
5775	1992	Oakland, CA PMSA
5945	1968	Orange County, CA PMSA
1120	1897	Boston, MANH PMSA
3320	1860	Honolulu, HI MSA
7400	1842	San Jose, CA PMSA
6160	1820	Philadelphia, PANJ PMSA
7320	1781	San Diego, CA MSA
3360	1496	Houston, TX PMSA
6780	1479	RiversideSan Bernardino, CA PMSA
520	1387	Atlanta, GA MSA
5640	1286	Newark, NJ PMSA
2160	1276	Detroit, MI PMSA
1920	1122	Dallas, TX PMSA
7600	1049	SeattleBellevueEverett, WA PMSA
5380	1017	NassauSuffolk, NY PMSA
6200 2680	1008 980	PhoenixMesa, AZ MSA Fort Lauderdale, FL PMSA
720	936	Baltimore, MD PMSA
875	926	BergenPassaic, NJ PMSA
6920	882	Sacramento, CA PMSA
2840	872	Fresno, CA MSA
3640	845	Jersey City, NJ PMSA
8280	755	TampaSt. PetersburgClearwater, FL MSA
5720	680	NorfolkVirginia BeachNewport News, VANC MSA
5960	678	Orlando, FL MSA
4120	645	Las Vegas, NVAZ MSA
6440	610	PortlandVancouver, ORWA PMSA
5015	609	MiddlesexSomersetHunterdon, NJ PMSA
8960	609	West Palm BeachBoca Raton, FL MSA
1680	604	ClevelandLorainElyria, OH PMSA
2080	602	Denver, CO PMSA
7240	565	San Antonio, TX MSA
5120	529	MinneapolisSt. Paul, MNWI MSA
8780	505	VisaliaTularePorterville, CA MSA
680	487	Bakersfield, CA MSA
5560	481	New Orleans, LA MSA
8120	479	StocktonLodi, CA MSA
7040	460	St. Louis, MOIL MSA
2800	457	Fort WorthArlington, TX PMSA

	Count of Unique	
City ID	Agent classes	Census Bureau Metropolitan Area Name
6480	455	ProvidenceFall RiverWarwick, RIMA MSA
8735	431	Ventura, CA PMSA
200	428	Albuquerque, NM MSA
8200	383	Tacoma, WA PMSA
3760	379	Kansas City, MOKS MSA
8520	378	Tucson, AZ MSA
2320	374	El Paso, TX MSA
1520	372	CharlotteGastoniaRock Hill, NCSC MSA
3280	354	Hartford, CT MSA
3600	351	Jacksonville, FL MSA
6640	351	RaleighDurhamChapel Hill, NC MSA
6280	346	Pittsburgh, PA MSA
5190	345	MonmouthOcean, NJ PMSA
8720	341	VallejoFairfieldNapa, CA PMSA
4880	339	McAllenEdinburgMission, TX MSA
640	337	AustinSan Marcos, TX MSA
3120	328	GreensboroWinston-SalemHigh Point, NC MSA
1840	323	Columbus, OH MSA
1280	306	BuffaloNiagara Falls, NY MSA
7160	301	Salt Lake CityOgden, UT MSA
5080	287	MilwaukeeWaukesha, WI PMSA
5360	286	Nashville, TN MSA
4920	277	Memphis, TNARMS MSA
5170	276	Modesto, CA MSA
1640	267	Cincinnati, OHKYIN PMSA
6760	266	RichmondPetersburg, VA MSA
7480	261	Santa BarbaraSanta MariaLompoc, CA MSA
3480	258	Indianapolis, IN MSA
7120	255	Salinas, CA MSA
6840	252	Rochester, NY MSA
5880	249	Oklahoma City, OK MSA
1240	229	BrownsvilleHarlingenSan Benito, TX MSA
4940	222	Merced, CA MSA
7500	218	Santa Rosa, CA PMSA
8160	206	Syracuse, NY MSA
2560	200	Fayetteville, NC MSA
3810	199	KilleenTemple, TX MSA
1160	196	Bridgeport, CT PMSA
8040	191	StamfordNorwalk, CT PMSA
4520	189	Louisville, KYIN MSA
9340	189	Yuba City, CA MSA
2620	184	Flagstaff, AZUT MSA
8000	181	Springfield, MA MSA
1000	180	Birmingham, AL MSA
8560	178	Tulsa, OK MSA
1720	177	Colorado Springs, CO MSA
2000	177	DaytonSpringfield, OH MSA
9260	170	Yakima, WA MSA
7510	169	SarasotaBradenton, FL MSA
7310	109	SarasotaDiaucitoff, I'L IVISA

	Count of Unique	
City ID	Agent classes	Census Bureau Metropolitan Area Name
560	167	AtlanticCape May, NJ PMSA
7485	166	Santa CruzWatsonville, CA PMSA
4000	164	Lancaster, PA MSA
8480	164	Trenton, NJ PMSA
380	163	Anchorage, AK MSA
6080	163	Pensacola, FL MSA
160	162	AlbanySchenectadyTroy, NY MSA
3000	162	Grand RapidsMuskegonHolland, MI MSA
3980	162	LakelandWinter Haven, FL MSA
5160	162	Mobile, AL MSA
3160	161	GreenvilleSpartanburgAnderson, SC MSA
2960	156	Gary, IN PMSA
9160	154	WilmingtonNewark, DEMD PMSA
240	152	AllentownBethlehemEaston, PA MSA
4560	150	Lowell, MANH PMSA
2700	149	Fort MyersCape Coral, FL MSA
1440	148	CharlestonNorth Charleston, SC MSA
600	147	AugustaAiken, GASC MSA
5480	146	New HavenMeriden, CT PMSA
1760	144	Columbia, SC MSA
3240	143	HarrisburgLebanonCarlisle, PA MSA
1200	141	Brockton, MA PMSA
2710	141	Fort PiercePort St. Lucie, FL MSA
4900	141	MelbourneTitusvillePalm Bay, FL MSA
4080	137	Laredo, TX MSA
5400	137	New Bedford, MA PMSA
6720	137	Reno, NV MSA
3560	135	Jackson, MS MSA
7840	134	Spokane, WA MSA
9240	133	Worcester, MACT PMSA
5660	131	Newburgh, NYPA PMSA
760	130	Baton Rouge, LA MSA
9360	130	Yuma, AZ MSA
3605 5345	129	Jacksonville, NC MSA
5345	128	Naples, FL MSA
8400 440	128 126	Toledo, OH MSA Ann Arbor, MI PMSA
4680	123	Macon, GA MSA
7560	123	ScrantonWilkes-BarreHazleton, PA MSA
1620	119	ChicoParadise, CA MSA
7680	119	ShreveportBossier City, LA MSA
7080	118	Salem, OR PMSA
9040	117	Wichita, KS MSA
1880	109	Corpus Christi, TX MSA
8240	109	Tallahassee, FL MSA
80	108	Akron, OH PMSA
4160	108	Lawrence, MANH PMSA
4100	107	Las Cruces, NM MSA
9270	107	Yolo, CA PMSA
1210	107	1010, 0111111011

	Count of Unique	
City ID	Agent classes	Census Bureau Metropolitan Area Name
9320	106	YoungstownWarren, OH MSA
920	105	BiloxiGulfportPascagoula, MS MSA
2020	105	Daytona Beach, FL MSA
1150	101	Bremerton, WA PMSA
2580	99	FayettevilleSpringdaleRogers, AR MSA
840	98	BeaumontPort Arthur, TX MSA
4400	98	Little RockNorth Little Rock, AR MSA
5920	98	Omaha, NEIA MSA
1080	97	Boise City, ID MSA
3840	97	Knoxville, TN MSA
1560	94	Chattanooga, TNGA MSA
6680	94	Reading, PA MSA
8680	94	UticaRome, NY MSA
2760	91	Fort Wayne, IN MSA
3720	90	KalamazooBattle Creek, MI MSA
5240	90	Montgomery, AL MSA
6740	89	RichlandKennewickPasco, WA MSA
7920	89	Springfield, MO MSA
2750	88	Fort Walton Beach, FL MSA
1800	87	Columbus, GAAL MSA
1930	87	Danbury, CT PMSA
2920	87	GalvestonTexas City, TX PMSA
960	85	Binghamton, NY MSA
4040	85	LansingEast Lansing, MI MSA
7460	84	San Luis ObispoAtascaderoPaso Robles, CA MSA
7520	82	Savannah, GA MSA
320	81	Amarillo, TX MSA
3060	81	Greeley, CO PMSA
6960	79	SaginawBay CityMidland, MI MSA
2180	78	Dothan, AL MSA
2900	78	Gainesville, FL MSA
5790	78	Ocala, FL MSA
2400	77	EugeneSpringfield, OR MSA
5910	77	Olympia, WA PMSA
2281	75	Dutchess County, NY PMSA
3290	75	HickoryMorgantonLenoir, NC MSA
4720	74	Madison, WI MSA
6520	74	ProvoOrem, UT MSA
3440	73	Huntsville, AL MSA
6880	73	Rockford, IL MSA
860	72	Bellingham, WA MSA
1145	71	Brazoria, TX PMSA
2120	70	Des Moines, IA MSA
3880	69	Lafayette, LA MSA
4600	69	Lubbock, TX MSA
5800	69	OdessaMidland, TX MSA
7490	67	Santa Fe, NM MSA
6690	66	Redding, CA MSA
1320	65	CantonMassillon, OH MSA

	Count of Unique	
City ID	Agent classes	Census Bureau Metropolitan Area Name
2190	65	Dover, DE MSA
3680	64	Johnstown, PA MSA
1660	62	ClarksvilleHopkinsville, TNKY MSA
2640	62	Flint, MI PMSA
3660	60	Johnson CityKingsportBristol, TNVA MSA
1125	59	BoulderLongmont, CO PMSA
2670	59	Fort CollinsLoveland, CO MSA
2330	58	ElkhartGoshen, IN MSA
3960	58	Lake Charles, LA MSA
4280	58	Lexington, KY MSA
6120	58	PeoriaPekin, IL MSA
9200	58	Wilmington, NC MSA
220	56	Alexandria, LA MSA
2360	56	Erie, PA MSA
8640	56	Tyler, TX MSA
8760	55	VinelandMillvilleBridgeton, NJ PMSA
9280	55	York, PA MSA
7800	54	South Bend, IN MSA
870	53	Benton Harbor, MI MSA
3150	53	Greenville, NC MSA
6015	53	Panama City, FL MSA
8880	53	Waterbury, CT PMSA
2980	51	Goldsboro, NC MSA
4640	51	Lynchburg, VA MSA
6895	51	Rocky Mount, NC MSA
2600	50	FitchburgLeominster, MA PMSA
8800	50	Waco, TX MSA
500	49	Athens, GA MSA
2030	49	Decatur, AL MSA
4890	49	MedfordAshland, OR MSA
8140	49	Sumter, SC MSA
480	48	Asheville, NC MSA
460	47	AppletonOshkoshNeenah, WI MSA
6800	47	Roanoke, VA MSA
1260	46	BryanCollege Station, TX MSA
3080	45	Green Bay, WI MSA
3200	45	HamiltonMiddletown, OH PMSA
3350	45	Houma, LA MSA
1960	44	DavenportMolineRock Island, IAIL MSA
1400	43	ChampaignUrbana, IL MSA
3610	43	Jamestown, NY MSA
3710	43	Joplin, MO MSA
4420	43	LongviewMarshall, TX MSA
8050	42	State College, PA MSA
1540	42	Charlottesville, VA MSA
5200	39	Monroe, LA MSA
	39	
5330		Myrtle Beach, SC MSA Regrestable, Vermouth, MA MSA
740	38	BarnstableYarmouth, MA MSA
6980	38	St. Cloud, MN MSA

City ID	Count of Unique Agent classes	Census Bureau Metropolitan Area Name
8940	38	Wausau, WI MSA
9080	38	Wichita Falls, TX MSA
40	37	Abilene, TX MSA
8600	37	Tuscaloosa, AL MSA
120	36	Albany, GA MSA
2720	35	Fort Smith, AROK MSA
6400	35	Portland, ME MSA
6560	35	Pueblo, CO MSA
6580	35	Punta Gorda, FL MSA
2650	34	Florence, AL MSA
4360	34	Lincoln, NE MSA
1040	33	BloomingtonNormal, IL MSA
1740	33	Columbia, MO MSA
3520	33	Jackson, MI MSA
4760	33	Manchester, NH PMSA
1950	31	Danville, VA MSA
9140	29	Williamsport, PA MSA
580	28	AuburnOpelika, AL MSA
3920	28	Lafayette, IN MSA
7620	28	Sheboygan, WI MSA
2440	27	EvansvilleHenderson, INKY MSA
3740	27	Kankakee, IL PMSA
7610	27	Sharon, PA MSA
8440	27	Topeka, KS MSA
8920	27	WaterlooCedar Falls, IA MSA
450	26	Anniston, AL MSA
280	25	Altoona, PA MSA
1020	25	Bloomington, IN MSA
2240	25	DuluthSuperior, MNWI MSA
8320	25	Terre Haute, IN MSA
3850	24	Kokomo, IN MSA
4320	24	Lima, OH MSA
4800	24	Mansfield, OH MSA
1360	23	Cedar Rapids, IA MSA
3180	23	Hagerstown, MD PMSA
3580	23	Jackson, TN MSA
5280	23	Muncie, IN MSA
880	22	Billings, MT MSA
2290	22	Eau Claire, WI MSA
3285	22	Hattiesburg, MS MSA
5350	21	Nashua, NH PMSA
6820	21	Rochester, MN MSA
2520	20	FargoMoorhead, NDMN MSA
2975	20	Glens Falls, NY MSA
3620	20	JanesvilleBeloit, WI MSA
3800	20	Kenosha, WI PMSA
2880	19	Gadsden, AL MSA
7760	19	Sioux Falls, SD MSA
6600	17	Racine, WI PMSA

C' ID	Count of Unique	
City ID	Agent classes	Census Bureau Metropolitan Area Name
3870	16	La Crosse, WIMN MSA
7720	16	Sioux City, IANE MSA
2040	15	Decatur, IL MSA
2995	15	Grand Junction, CO MSA
3500	14	Iowa City, IA MSA
7000	14	St. Joseph, MO MSA
7880	9	Springfield, IL MSA

Appendix C. Number of Agent-classes Found in Exactly Two Cities, per City.

Table 14. Agent-classes Found in Exactly Two Cities.

1 4 5 1 4 1 1 1	Count of "2-City"	Dadely 1 110 Oldes.
City ID	Agent classes	Census Bureau Metropolitan Area Name
5600	6482	New York, NY PMSA
4480	6059	Los AngelesLong Beach, CA PMSA
1600	3000	Chicago, IL PMSA
8840	2345	Washington, DCMDVAWV PMSA
5000	1767	Miami, FL PMSA
7360	1713	San Francisco, CA PMSA
5945	1572	Orange County, CA PMSA
5775	1529	Oakland, CA PMSA
7400	1494	San Jose, CA PMSA
6160	1480	Philadelphia, PANJ PMSA
1120	1443	Boston, MANH PMSA
7320	1370	San Diego, CA MSA
3360	1257	Houston, TX PMSA
3320	1188	Honolulu, HI MSA
6780	1186	RiversideSan Bernardino, CA PMSA
520	1159	Atlanta, GA MSA
2160	995	Detroit, MI PMSA
5640	976	Newark, NJ PMSA
1920	926	Dallas, TX PMSA
6200	889	PhoenixMesa, AZ MSA
5380	842	NassauSuffolk, NY PMSA
7600	836	SeattleBellevueEverett, WA PMSA
720	806	Baltimore, MD PMSA
875	771	BergenPassaic, NJ PMSA
2680	716	Fort Lauderdale, FL PMSA
6920	703	Sacramento, CA PMSA
8280	644	TampaSt. PetersburgClearwater, FL MSA
3640	608	Jersey City, NJ PMSA
2840	599	Fresno, CA MSA
6440	520	PortlandVancouver, ORWA PMSA
4120	519	Las Vegas, NVAZ MSA
7240	516	San Antonio, TX MSA
1680	512	ClevelandLorainElyria, OH PMSA
2080	508	Denver, CO PMSA
5960	494	Orlando, FL MSA
5015	475	MiddlesexSomersetHunterdon, NJ PMSA
5720	470	NorfolkVirginia BeachNewport News, VANC MSA
8960	458	West Palm BeachBoca Raton, FL MSA
7040	457	St. Louis, MOIL MSA
6480	432	ProvidenceFall RiverWarwick, RIMA MSA
5120	428	MinneapolisSt. Paul, MNWI MSA
2800	393	Fort WorthArlington, TX PMSA
8120	379	StocktonLodi, CA MSA
8735	363	Ventura, CA PMSA

	Count of "2-City"	
City ID	Agent classes	Census Bureau Metropolitan Area Name
8780	350	VisaliaTularePorterville, CA MSA
680	345	Bakersfield, CA MSA
3760	338	Kansas City, MOKS MSA
5560	338	New Orleans, LA MSA
8520	333	Tucson, AZ MSA
200	325	Albuquerque, NM MSA
4880	317	McAllenEdinburgMission, TX MSA
2320	309	El Paso, TX MSA
6640	307	RaleighDurhamChapel Hill, NC MSA
1520	298	CharlotteGastoniaRock Hill, NCSC MSA
1840	298	Columbus, OH MSA
3600	298	Jacksonville, FL MSA
3120	295	GreensboroWinston-SalemHigh Point, NC MSA
8200	293	Tacoma, WA PMSA
640	289	AustinSan Marcos, TX MSA
6280	285	Pittsburgh, PA MSA
1280	283	BuffaloNiagara Falls, NY MSA
5190	274	MonmouthOcean, NJ PMSA
5360	272	Nashville, TN MSA
3280	259	Hartford, CT MSA
3480	258	Indianapolis, IN MSA
7160	257	Salt Lake CityOgden, UT MSA
8720	253	VallejoFairfieldNapa, CA PMSA
1640	236	Cincinnati, OHKYIN PMSA
6760	225	RichmondPetersburg, VA MSA
5170	224	Modesto, CA MSA
6840	220	Rochester, NY MSA
5080	219	MilwaukeeWaukesha, WI PMSA
7480	219	Santa BarbaraSanta MariaLompoc, CA MSA
7120	204	Salinas, CA MSA
1240	202	BrownsvilleHarlingenSan Benito, TX MSA
4920	199	Memphis, TNARMS MSA
5880	190	Oklahoma City, OK MSA
7500	186	Santa Rosa, CA PMSA
8160	172	Syracuse, NY MSA
8560	167	Tulsa, OK MSA
1160	166	Bridgeport, CT PMSA
4520	164	Louisville, KYIN MSA
3000	161	Grand RapidsMuskegonHolland, MI MSA
4940	161	Merced, CA MSA
3160	155	GreenvilleSpartanburgAnderson, SC MSA
8000	155	Springfield, MA MSA
8040	155	StamfordNorwalk, CT PMSA
160	154	AlbanySchenectadyTroy, NY MSA
560	144	AtlanticCape May, NJ PMSA
9260	142	Yakima, WA MSA
4900	141	MelbourneTitusvillePalm Bay, FL MSA
3980	140	LakelandWinter Haven, FL MSA
6080	140	Pensacola, FL MSA

City ID Agent classes Census Bureau Metropolitan Area Name 1000 138 Birmingham, AL MSA 8480 135 Trenton, NJ PMSA 2000 133 Dayton-Springfield, OH MSA 7510 126 Sarasota-Bradenton, FL MSA 760 124 Baton Rouge, LA MSA 1440 124 Charleston-North Charleston, SC MSA 15160 124 Mobile, AL MSA 7485 122 Santa Cruz-Watsonville, CA PMSA 1760 121 Columbia, SC MSA 1810 121 Killeen-Temple, TX MSA 4000 121 Lancaster, PA MSA 4080 121 Laredo, TX MSA 9160 119 Wilmington-Newark, DE-MD PMSA 600 117 Augusta-Aiken, GA-SC MSA 2700 117 Fort Myers-Cape Coral, FL MSA 4560 117 Lowell, MA-NH PMSA 2960 116 Gary, IN PMSA 380 115 Alchorage, AK MSA 1720 115 Colorado Springs, CO MSA		Count of "2-City"	
8480 135 Trenton, NJ PMSA 2000 133 DaytonSpringfield, OH MSA 7510 126 SarasotaBradenton, FL MSA 760 124 Baton Rouge, LA MSA 1440 124 Charleston-North Charleston, SC MSA 15160 124 Mobile, AL MSA 1560 124 Mobile, AL MSA 1760 121 Columbia, SC MSA 3810 121 KilleenTemple, TX MSA 4000 121 Lancaster, PA MSA 4080 121 Laredo, TX MSA 9160 119 WilmingtonNewark, DEMD PMSA 600 117 AugustaAiken, GASC MSA 2700 117 Fort MyersCape Coral, FL MSA 4560 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA <t< th=""><th>•</th><th>-</th><th></th></t<>	•	-	
2000 133 DaytonSpringfield, OH MSA 7510 126 SarasotaBradenton, FL MSA 760 124 Baton Rouge, LA MSA 1440 124 CharlestonNorth Charleston, SC MSA 5160 124 Mobile, AL MSA 5160 124 Mobile, AL MSA 1760 122 Columbia, SC MSA 3810 121 KilleenTemple, TX MSA 4000 121 Laredo, TX MSA 4080 121 Laredo, TX MSA 9160 119 WilmingtonNewark, DEMD PMSA 600 117 AugustaAiken, GASC MSA 2700 117 Fort MyersCape Coral, FL MSA 4560 117 Lowell, MANH PMSA 2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 AllentownBethlehemEaston, PA MSA 120 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA			•
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4080 121 Laredo, TX MSA 9160 119 WilmingtonNewark, DEMD PMSA 600 117 AugustaAiken, GASC MSA 2700 117 Fort MyersCape Coral, FL MSA 4560 116 Gary, IN PMSA 2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Vuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA	3810	121	*
9160 119 WilmingtonNewark, DEMD PMSA 600 117 AugustaAiken, GASC MSA 2700 117 Fort MyersCape Coral, FL MSA 4560 117 Lowell, MANH PMSA 2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5480 111 Newburgh, NYPA PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 9320 101 YoungstownWarren, OH MSA 9320 99 Flagstaff, AZUT MSA 9360 99 New Bedford, MA PMSA 5480 99 New Bedford, MA PMSA 5490 99 New Bedford, MA PMSA	4000	121	
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2700 117 Fort MyersCape Coral, FL MSA 4560 117 Lowell, MANH PMSA 2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 940 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9		119	WilmingtonNewark, DEMD PMSA
4560 117 Lowell, MANH PMSA 2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2710	600	117	<u> </u>
2960 116 Gary, IN PMSA 240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9	2700	117	Fort MyersCape Coral, FL MSA
240 115 AllentownBethlehemEaston, PA MSA 380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 5660 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 940 99 Macon, GA MSA	4560	117	Lowell, MANH PMSA
380 115 Anchorage, AK MSA 1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 8680 99 Mcon, GA MSA New Bedford, MA PMSA 5345 97 Naples, FL MSA <	2960	116	Gary, IN PMSA
1720 115 Colorado Springs, CO MSA 2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA New Bedford, MA PMSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA	240	115	AllentownBethlehemEaston, PA MSA
2560 113 Fayetteville, NC MSA 2020 112 Daytona Beach, FL MSA 5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 7680 104 ShreveportBossier City, LA MSA 9320 101 YoungstownWarren, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 New Bedford, MA PMSA 5400 99 New Bedford, MA PMSA </td <td>380</td> <td>115</td> <td>Anchorage, AK MSA</td>	380	115	Anchorage, AK MSA
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5480 112 New HavenMeriden, CT PMSA 5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus	2560	113	Fayetteville, NC MSA
5660 111 Newburgh, NYPA PMSA 9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWil	2020	112	•
9340 111 Yuba City, CA MSA 4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9940 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 Scranton	5480	112	New HavenMeriden, CT PMSA
4160 110 Lawrence, MANH PMSA 9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92	5660	111	Newburgh, NYPA PMSA
9240 109 Worcester, MACT PMSA 3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	9340	111	Yuba City, CA MSA
3560 108 Jackson, MS MSA 6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	4160	110	Lawrence, MANH PMSA
6720 108 Reno, NV MSA 3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 840 92 BeaumontPort Arthur, TX MSA	9240	109	Worcester, MACT PMSA
3240 107 HarrisburgLebanonCarlisle, PA MSA 9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	3560	108	Jackson, MS MSA
9360 107 Yuma, AZ MSA 9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	6720	108	Reno, NV MSA
9040 105 Wichita, KS MSA 7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	3240	107	HarrisburgLebanonCarlisle, PA MSA
7680 104 ShreveportBossier City, LA MSA 8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	9360	107	Yuma, AZ MSA
8400 102 Toledo, OH MSA 9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	9040	105	Wichita, KS MSA
9320 101 YoungstownWarren, OH MSA 2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	7680	104	ShreveportBossier City, LA MSA
2620 99 Flagstaff, AZUT MSA 2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	8400	102	Toledo, OH MSA
2710 99 Fort PiercePort St. Lucie, FL MSA 4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	9320	101	YoungstownWarren, OH MSA
4680 99 Macon, GA MSA 5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	2620	99	Flagstaff, AZUT MSA
5400 99 New Bedford, MA PMSA 8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	2710	99	Fort PiercePort St. Lucie, FL MSA
8680 99 UticaRome, NY MSA 5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	4680	99	Macon, GA MSA
5345 97 Naples, FL MSA 5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	5400	99	New Bedford, MA PMSA
5920 97 Omaha, NEIA MSA 7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	8680	99	UticaRome, NY MSA
7080 97 Salem, OR PMSA 1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	5345	97	Naples, FL MSA
1880 95 Corpus Christi, TX MSA 7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	5920	97	Omaha, NEIA MSA
7560 95 ScrantonWilkes-BarreHazleton, PA MSA 8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	7080	97	Salem, OR PMSA
8240 94 Tallahassee, FL MSA 840 92 BeaumontPort Arthur, TX MSA	1880	95	Corpus Christi, TX MSA
840 92 BeaumontPort Arthur, TX MSA	7560	95	ScrantonWilkes-BarreHazleton, PA MSA
	8240	94	Tallahassee, FL MSA
2760 92 Fort Wayne, IN MSA	840	92	BeaumontPort Arthur, TX MSA
	2760	92	Fort Wayne, IN MSA
4040 92 Lansing-East Lansing, MI MSA	4040	92	LansingEast Lansing, MI MSA

	Count of "2-City"	
City ID	Agent classes	Census Bureau Metropolitan Area Name
3440	91	Huntsville, AL MSA
7840	91	Spokane, WA MSA
1200	90	Brockton, MA PMSA
9270	85	Yolo, CA PMSA
4400	84	Little RockNorth Little Rock, AR MSA
920	83	BiloxiGulfportPascagoula, MS MSA
3840	83	Knoxville, TN MSA
1930	82	Danbury, CT PMSA
1620	81	ChicoParadise, CA MSA
2400	81	EugeneSpringfield, OR MSA
3290	79	HickoryMorgantonLenoir, NC MSA
80	77	Akron, OH PMSA
440	77	Ann Arbor, MI PMSA
2580	76	FayettevilleSpringdaleRogers, AR MSA
3720	76	KalamazooBattle Creek, MI MSA
4100	74	Las Cruces, NM MSA
5790	74	Ocala, FL MSA
1080	73	Boise City, ID MSA
3605	73	Jacksonville, NC MSA
6680	73	Reading, PA MSA
1560	72	Chattanooga, TNGA MSA
6740	72	RichlandKennewickPasco, WA MSA
1150	70	Bremerton, WA PMSA
2920	69	GalvestonTexas City, TX PMSA
4600	69	Lubbock, TX MSA
5240	69	Montgomery, AL MSA
860	68	Bellingham, WA MSA
1800	67	Columbus, GAAL MSA
4720	67	Madison, WI MSA
6520	67	ProvoOrem, UT MSA
320	66	Amarillo, TX MSA
960	66	Binghamton, NY MSA
1145	66	Brazoria, TX PMSA
7490	64	Santa Fe, NM MSA
2750	62	Fort Walton Beach, FL MSA
2900	62	Gainesville, FL MSA
6880	62	Rockford, IL MSA
7460	61	San Luis ObispoAtascaderoPaso Robles, CA MSA
2281	58	Dutchess County, NY PMSA
5910	58	Olympia, WA PMSA
6690	58	Redding, CA MSA
6960	58	SaginawBay CityMidland, MI MSA
7520	58	Savannah, GA MSA
480	56	Asheville, NC MSA
3880	56	Lafayette, LA MSA
8880	55	Waterbury, CT PMSA
1125	54	BoulderLongmont, CO PMSA
1660	53	ClarksvilleHopkinsville, TNKY MSA
1960	53	DavenportMolineRock Island, IAIL MSA

City ID	Count of "2-City" Agent classes	Census Bureau Metropolitan Area Name
2120	53	Des Moines, IA MSA
2120	53	Dover, DE MSA
460	52	AppletonOshkoshNeenah, WI MSA
5800	52	OdessaMidland, TX MSA
9280	52	York, PA MSA
3060	50	Greeley, CO PMSA
2640	49	Flint, MI PMSA
5330	49	Myrtle Beach, SC MSA
6120	49	PeoriaPekin, IL MSA
7800	49	South Bend, IN MSA
220	48	Alexandria, LA MSA
7920	48	Springfield, MO MSA
8800	48	Waco, TX MSA
2180	47	Dothan, AL MSA
3150	47	Greenville, NC MSA
2670	46	Fort CollinsLoveland, CO MSA
4640	46	Lynchburg, VA MSA
8760	46	VinelandMillvilleBridgeton, NJ PMSA
40	45	Abilene, TX MSA
1320	45	CantonMassillon, OH MSA
3350	45	Houma, LA MSA
3680	44	Johnstown, PA MSA
4890	44	MedfordAshland, OR MSA
6015	44	Panama City, FL MSA
2330	43	ElkhartGoshen, IN MSA
2600	43	FitchburgLeominster, MA PMSA
870	42	Benton Harbor, MI MSA
2360	42	Erie, PA MSA
3610	42	Jamestown, NY MSA
8640	42	Tyler, TX MSA
6895	41	Rocky Mount, NC MSA
2720	39	Fort Smith, AROK MSA
9200	39	Wilmington, NC MSA
500	38	Athens, GA MSA
2980	38	Goldsboro, NC MSA
6800	38	Roanoke, VA MSA
8140	38	Sumter, SC MSA
2030	37	Decatur, AL MSA
2975	37	Glens Falls, NY MSA
3660	37	Johnson CityKingsportBristol, TNVA MSA
120	36	Albany, GA MSA
740	36	BarnstableYarmouth, MA MSA
1260	35	BryanCollege Station, TX MSA
4280	35	Lexington, KY MSA
4420	35	LongviewMarshall, TX MSA
1540	34	Charlottesville, VA MSA
3200	34	HamiltonMiddletown, OH PMSA
3920	34	Lafayette, IN MSA
3080	33	Green Bay, WI MSA
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	Count of "2-City"	
City ID	Agent classes	Census Bureau Metropolitan Area Name
6560	31	Pueblo, CO MSA
9080	31	Wichita Falls, TX MSA
1400	30	ChampaignUrbana, IL MSA
2240	30	DuluthSuperior, MNWI MSA
3740	30	Kankakee, IL PMSA
4360	29	Lincoln, NE MSA
5200	29	Monroe, LA MSA
6580	29	Punta Gorda, FL MSA
8600	29	Tuscaloosa, AL MSA
3180	28	Hagerstown, MD PMSA
3710	28	Joplin, MO MSA
3960	28	Lake Charles, LA MSA
1950	27	Danville, VA MSA
6400	26	Portland, ME MSA
4760	25	Manchester, NH PMSA
2290	24	Eau Claire, WI MSA
3580	24	Jackson, TN MSA
7620	24	Sheboygan, WI MSA
8320	24	Terre Haute, IN MSA
8940	24	Wausau, WI MSA
3520	23	Jackson, MI MSA
4320	23	Lima, OH MSA
7610	23	Sharon, PA MSA
7880	23	Springfield, IL MSA
880	22	Billings, MT MSA
2995	22	Grand Junction, CO MSA
9140	22	Williamsport, PA MSA
2650	21	Florence, AL MSA
2880	21	Gadsden, AL MSA
3800	21	Kenosha, WI PMSA
4800	21	Mansfield, OH MSA
7720	21	Sioux City, IANE MSA
580	20	AuburnOpelika, AL MSA
1040	20	BloomingtonNormal, IL MSA
1740	20	Columbia, MO MSA
6820	20	Rochester, MN MSA
6980	20	St. Cloud, MN MSA
8920	20	WaterlooCedar Falls, IA MSA
450	19	Anniston, AL MSA
2440	19	EvansvilleHenderson, INKY MSA
5350	19	Nashua, NH PMSA
7000	19	St. Joseph, MO MSA
280	18	Altoona, PA MSA
1020	18	Bloomington, IN MSA
1360	18	Cedar Rapids, IA MSA
8050	18	State College, PA MSA
3285	17	Hattiesburg, MS MSA
6600	17	Racine, WI PMSA
8440	16	Topeka, KS MSA

	Count of "2-City"	
City ID	Agent classes	Census Bureau Metropolitan Area Name
3500	15	Iowa City, IA MSA
3620	15	JanesvilleBeloit, WI MSA
3850	14	Kokomo, IN MSA
2040	12	Decatur, IL MSA
2520	12	FargoMoorhead, NDMN MSA
3870	11	La Crosse, WIMN MSA
5280	10	Muncie, IN MSA
7760	9	Sioux Falls, SD MSA

Appendix D. Percent of City Population Comprised by Common Agent-classes (95-100%).

Table 15. Percent of City Population Comprised by Agent-classes Found in 95-100% of U.S. Cities.

City	pctCityPop NumAge	entClasses
Abilene, TX MSA	14.27	158
Akron, OH PMSA	17.89	162
Albany, GA MSA	9.82	139
AlbanySchenectadyTroy, NY MSA	15.99	162
Albuquerque, NM MSA	7.67	162
Alexandria, LA MSA	14.64	150
AllentownBethlehemEaston, PA MSA	16.25	162
Altoona, PA MSA	25.75	160
Amarillo, TX MSA	14.93	162
Anchorage, AK MSA	6.28	137
Ann Arbor, MI PMSA	10.56	162
Anniston, AL MSA	16.53	151
AppletonOshkoshNeenah, WI MSA	19.12	162
Asheville, NC MSA	16.30	161
Athens, GA MSA	9.61	161
Atlanta, GA MSA	8.78	162
AtlanticCape May, NJ PMSA	12.63	162
AuburnOpelika, AL MSA	9.23	132
AugustaAiken, GASC MSA	11.79	162
AustinSan Marcos, TX MSA	6.74	162
Bakersfield, CA MSA	9.33	162
Baltimore, MD PMSA	9.71	162
BarnstableYarmouth, MA MSA	18.17	155
Baton Rouge, LA MSA	12.24	162
BeaumontPort Arthur, TX MSA	14.92	162
Bellingham, WA MSA	13.51	159
Benton Harbor, MI MSA	18.25	161
BergenPassaic, NJ PMSA	9.09	162
Billings, MT MSA	17.34	152
BiloxiGulfportPascagoula, MS MSA	14.25	162
Binghamton, NY MSA	19.88	162
Birmingham, AL MSA	12.00	162
Bloomington, IN MSA	11.14	145
BloomingtonNormal, IL MSA	13.87	160
Boise City, ID MSA	14.45	162
Boston, MANH PMSA	10.53	162
BoulderLongmont, CO PMSA	7.98	150
Brazoria, TX PMSA	12.92	161
Bremerton, WA PMSA	12.94	157
Bridgeport, CT PMSA	9.85	160
Brockton, MA PMSA	14.74	160

City	pctCityPop Nu	mAgentClasses
BrownsvilleHarlingenSan Benito, TX MSA	3.69	130
BryanCollege Station, TX MSA	6.91	134
BuffaloNiagara Falls, NY MSA	17.45	162
CantonMassillon, OH MSA	21.76	162
Cedar Rapids, IA MSA	18.67	158
ChampaignUrbana, IL MSA	11.54	161
CharlestonNorth Charleston, SC MSA	9.76	162
CharlotteGastoniaRock Hill, NCSC MSA	12.24	162
Charlottesville, VA MSA	9.56	155
Chattanooga, TNGA MSA	16.85	162
Chicago, IL PMSA	9.04	162
ChicoParadise, CA MSA	14.65	160
Cincinnati, OHKYIN PMSA	15.39	162
ClarksvilleHopkinsville, TNKY MSA	11.87	155
ClevelandLorainElyria, OH PMSA	15.81	162
Colorado Springs, CO MSA	11.67	162
Columbia, MO MSA	10.64	148
Columbia, SC MSA	10.35	162
Columbus, GAAL MSA	9.77	154
Columbus, OH MSA	13.26	162
Corpus Christi, TX MSA	8.72	157
Dallas, TX PMSA	8.13	162
Danbury, CT PMSA	10.71	154
Danville, VA MSA	15.87	155
DavenportMolineRock Island, IAIL MSA	18.56	161
Daytona Beach, FL MSA	17.77	162
DaytonSpringfield, OH MSA	16.23	162
Decatur, AL MSA	17.09	162
Decatur, IL MSA	20.83	159
Denver, CO PMSA	10.03	162
Des Moines, IA MSA	14.61	159
Detroit, MI PMSA	13.51	162
Dothan, AL MSA	15.44	159
Dover, DE MSA	14.43	155
DuluthSuperior, MNWI MSA	23.11	161
Dutchess County, NY PMSA	13.99	161
Eau Claire, WI MSA	18.58	160
El Paso, TX MSA	3.50	152
ElkhartGoshen, IN MSA	16.78	161
Erie, PA MSA	19.34	162
EugeneSpringfield, OR MSA	14.46	162
EvansvilleHenderson, INKY MSA	20.41	162
FargoMoorhead, NDMN MSA	16.19	148
Fayetteville, NC MSA	9.00	160
FayettevilleSpringdaleRogers, AR MSA	15.38	161
FitchburgLeominster, MA PMSA	16.40	156
Flagstaff, AZUT MSA	7.44	138

Flint, MI PMSA 13.15 159 Florence, AL MSA 18.15 160 Fort CollinsLoveland, CO MSA 10.60 159 Fort Lauderdale, FL PMSA 10.58 162 Fort MyersCape Coral, FL MSA 16.47 162 Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort CollinsLoveland, CO MSA 10.60 159 Fort Lauderdale, FL PMSA 10.58 162 Fort MyersCape Coral, FL MSA 16.47 162 Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort Lauderdale, FL PMSA 10.58 162 Fort MyersCape Coral, FL MSA 16.47 162 Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort MyersCape Coral, FL MSA 16.47 162 Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort PiercePort St. Lucie, FL MSA 16.89 162 Fort Smith, AROK MSA 17.41 157 Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort Walton Beach, FL MSA 14.27 158 Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort Wayne, IN MSA 18.74 162 Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fort WorthArlington, TX PMSA 11.44 162 Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Fresno, CA MSA 7.94 162 Gadsden, AL MSA 18.98 154 Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Gainesville, FL MSA 8.34 159 GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
GalvestonTexas City, TX PMSA 11.39 162 Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Gary, IN PMSA 15.50 162 Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Glens Falls, NY MSA 19.19 162 Goldsboro, NC MSA 12.03 153
Goldsboro, NC MSA 12.03 153
Grand Junction, CO MSA 16.25 152
Grand RapidsMuskegonHolland, MI MSA 16.79 162
Greeley, CO PMSA 12.30 159
Green Bay, WI MSA 18.47 161
GreensboroWinston-SalemHigh Point, NC MSA 14.35 162
Greenville, NC MSA 9.26 152
GreenvilleSpartanburgAnderson, SC MSA 14.54 162
Hagerstown, MD PMSA 20.10 161
HamiltonMiddletown, OH PMSA 16.48 162
HarrisburgLebanonCarlisle, PA MSA 17.36 162
Hartford, CT MSA 11.33 162
Hattiesburg, MS MSA 13.18 141
HickoryMorgantonLenoir, NC MSA 16.86 162
Honolulu, HI MSA 1.72 151
Houma, LA MSA 14.62 144
Houston, TX PMSA 7.45 162
Huntsville, AL MSA 12.99 162
Indianapolis, IN MSA 14.58 162
Iowa City, IA MSA 8.56 130
Jackson, MI MSA 18.93 161
Jackson, MS MSA 8.96 161
Jackson, TN MSA 14.66 153
Jacksonville, FL MSA 12.29 162
Jacksonville, NC MSA 10.19 153
Jamestown, NY MSA 20.31 162
JanesvilleBeloit, WI MSA 18.67 161
Jersey City, NJ PMSA 3.07 136
Johnson CityKingsportBristol, TNVA MSA 19.55 162
Johnstown, PA MSA 25.42 162
Joplin, MO MSA 19.62 160

City	pctCityPop	NumAgentClasses
KalamazooBattle Creek, MI MSA	16.07	162
Kankakee, IL PMSA	16.62	160
Kansas City, MOKS MSA	14.45	162
Kenosha, WI PMSA	17.05	159
KilleenTemple, TX MSA	10.08	162
Knoxville, TN MSA	16.57	162
Kokomo, IN MSA	20.67	157
La Crosse, WIMN MSA	19.72	157
Lafayette, IN MSA	14.02	162
Lafayette, LA MSA	12.52	159
Lake Charles, LA MSA	14.24	157
LakelandWinter Haven, FL MSA	16.18	162
Lancaster, PA MSA	16.52	162
LansingEast Lansing, MI MSA	15.34	162
Laredo, TX MSA	0.47	26
Las Cruces, NM MSA	5.28	128
Las Vegas, NVAZ MSA	8.69	162
Lawrence, MANH PMSA	11.81	161
Lexington, KY MSA	10.83	159
Lima, OH MSA	20.95	161
Lincoln, NE MSA	14.52	160
Little RockNorth Little Rock, AR MSA	13.57	162
LongviewMarshall, TX MSA	14.19	159
Los AngelesLong Beach, CA PMSA	4.32	162
Louisville, KYIN MSA	16.60	162
Lowell, MANH PMSA	13.72	162
Lubbock, TX MSA	10.79	161
Lynchburg, VA MSA	16.19	162
Macon, GA MSA	12.02	162
Madison, WI MSA	12.01	161
Manchester, NH PMSA	12.57	132
Mansfield, OH MSA	19.89	157
McAllenEdinburgMission, TX MSA	2.80	118
MedfordAshland, OR MSA	15.18	160
MelbourneTitusvillePalm Bay, FL MSA	16.97	162
Memphis, TNARMS MSA	8.99	162
Merced, CA MSA	8.41	155
Miami, FL PMSA	2.78	162
MiddlesexSomersetHunterdon, NJ PMSA	10.10	162
MilwaukeeWaukesha, WI PMSA	13.74	162
MinneapolisSt. Paul, MNWI MSA	14.89	162
Mobile, AL MSA	13.35	162
Modesto, CA MSA	10.54	162
MonmouthOcean, NJ PMSA	14.41	162
Monroe, LA MSA	12.78	155
Montgomery, AL MSA	11.06	161
Muncie, IN MSA	17.40	154

City	pctCityPop	NumAgentClasses
Myrtle Beach, SC MSA	14.72	•
Naples, FL MSA	13.06	161
Nashua, NH PMSA	14.21	138
Nashville, TN MSA	12.67	
NassauSuffolk, NY PMSA	12.20	162
New Bedford, MA PMSA	13.68	
New HavenMeriden, CT PMSA	11.85	
New Orleans, LA MSA	11.11	
New York, NY PMSA	3.87	
Newark, NJ PMSA	8.22	
Newburgh, NYPA PMSA	12.95	
NorfolkVirginia BeachNewport News, VANC MSA	10.37	
Oakland, CA PMSA	6.12	
Ocala, FL MSA	17.79	
OdessaMidland, TX MSA	12.12	
Oklahoma City, OK MSA	13.13	
Olympia, WA PMSA	13.27	
Omaha, NEIA MSA	14.01	
Orange County, CA PMSA	6.97	
Orlando, FL MSA	11.44	162
Panama City, FL MSA	15.66	
Pensacola, FL MSA	13.77	
PeoriaPekin, IL MSA	20.64	162
Philadelphia, PANJ PMSA	10.20	162
PhoenixMesa, AZ MSA	10.52	162
Pittsburgh, PA MSA	21.26	162
Portland, ME MSA	15.00	156
PortlandVancouver, ORWA PMSA	12.11	162
ProvidenceFall RiverWarwick, RIMA MSA	14.47	162
ProvoOrem, UT MSA	12.83	160
Pueblo, CO MSA	12.71	144
Punta Gorda, FL MSA	21.74	156
Racine, WI PMSA	17.36	160
RaleighDurhamChapel Hill, NC MSA	8.89	162
Reading, PA MSA	15.54	162
Redding, CA MSA	16.84	161
Reno, NV MSA	9.95	160
RichlandKennewickPasco, WA MSA	13.26	158
RichmondPetersburg, VA MSA	11.35	162
RiversideSan Bernardino, CA PMSA	8.62	162
Roanoke, VA MSA	17.52	161
Rochester, MN MSA	16.56	157
Rochester, NY MSA	15.82	162
Rockford, IL MSA	16.43	162
Rocky Mount, NC MSA	11.15	160
Sacramento, CA PMSA	10.01	162
SaginawBay CityMidland, MI MSA	20.26	162

City	pctCityPop	NumAgentClasses
Salem, OR PMSA	13.41	_
Salinas, CA MSA	5.83	152
Salt Lake CityOgden, UT MSA	14.45	
San Antonio, TX MSA	7.05	
San Diego, CA MSA	7.65	
San Francisco, CA PMSA	4.38	
San Jose, CA PMSA	5.15	
San Luis ObispoAtascaderoPaso Robles, CA MSA	11.44	
Santa BarbaraSanta MariaLompoc, CA MSA	7.50	
Santa CruzWatsonville, CA PMSA	7.18	
Santa Fe, NM MSA	5.62	
Santa Rosa, CA PMSA	10.77	
SarasotaBradenton, FL MSA	16.76	
Savannah, GA MSA	9.07	
ScrantonWilkes-BarreHazleton, PA MSA	21.10	
SeattleBellevueEverett, WA PMSA	10.25	
Sharon, PA MSA	23.68	
Sheboygan, WI MSA	20.01	
ShreveportBossier City, LA MSA	12.89	
Sioux City, IANE MSA	18.81	
Sioux Falls, SD MSA	17.12	
South Bend, IN MSA	16.72	
Spokane, WA MSA	16.58	
Springfield, IL MSA	15.03	
Springfield, MA MSA	14.51	
Springfield, MO MSA	16.43	
St. Cloud, MN MSA	19.83	161
St. Joseph, MO MSA	21.11	153
St. Louis, MOIL MSA	15.83	162
StamfordNorwalk, CT PMSA	7.18	153
State College, PA MSA	13.41	159
StocktonLodi, CA MSA	8.67	162
Sumter, SC MSA	9.84	
Syracuse, NY MSA	17.73	162
Tacoma, WA PMSA	12.35	162
Tallahassee, FL MSA	7.89	159
TampaSt. PetersburgClearwater, FL MSA	15.37	162
Terre Haute, IN MSA	20.21	161
Toledo, OH MSA	16.73	162
Topeka, KS MSA	17.05	157
Trenton, NJ PMSA	8.48	156
Tucson, AZ MSA	9.91	162
Tulsa, OK MSA	14.68	162
Tuscaloosa, AL MSA	11.44	151
Tyler, TX MSA	13.58	159
UticaRome, NY MSA	20.25	162
VallejoFairfieldNapa, CA PMSA	8.69	161

City	pctCityPop	NumAgentClasses
Ventura, CA PMSA	8.10	162
VinelandMillvilleBridgeton, NJ PMSA	12.92	152
VisaliaTularePorterville, CA MSA	8.56	162
Waco, TX MSA	12.95	161
Washington, DCMDVAWV PMSA	5.95	162
Waterbury, CT PMSA	12.02	141
WaterlooCedar Falls, IA MSA	18.17	156
Wausau, WI MSA	20.85	161
West Palm BeachBoca Raton, FL MSA	11.82	162
Wichita Falls, TX MSA	14.55	155
Wichita, KS MSA	15.33	162
Williamsport, PA MSA	21.88	161
Wilmington, NC MSA	12.87	161
WilmingtonNewark, DEMD PMSA	12.59	162
Worcester, MACT PMSA	13.79	160
Yakima, WA MSA	11.78	161
Yolo, CA PMSA	7.23	146
York, PA MSA	18.45	162
YoungstownWarren, OH MSA	20.84	162
Yuba City, CA MSA	12.21	161
Yuma, AZ MSA	9.88	144

Appendix E. Percent of City Population Comprised of Common Agent-classes (90-95%).

Table 16. Percent of City Population Comprised of Agent-classes Found in 90-95% of U.S. Cities.

City	pctCityPop NumAgentClasses	
Abilene, TX MSA	8.67	128
Akron, OH PMSA	9.48	162
Albany, GA MSA	4.61	108
AlbanySchenectadyTroy, NY MSA	8.68	162
Albuquerque, NM MSA	4.72	160
Alexandria, LA MSA	6.36	131
AllentownBethlehemEaston, PA MSA	8.10	161
Altoona, PA MSA	9.36	148
Amarillo, TX MSA	7.94	157
Anchorage, AK MSA	4.77	116
Ann Arbor, MI PMSA	9.10	159
Anniston, AL MSA	7.08	129
AppletonOshkoshNeenah, WI MSA	10.77	162
Asheville, NC MSA	8.23	161
Athens, GA MSA	7.24	143
Atlanta, GA MSA	5.43	162
AtlanticCape May, NJ PMSA	6.94	158
AuburnOpelika, AL MSA	8.73	106
AugustaAiken, GASC MSA	6.12	162
AustinSan Marcos, TX MSA	6.24	162
Bakersfield, CA MSA	4.92	162
Baltimore, MD PMSA	5.71	162
BarnstableYarmouth, MA MSA	8.64	148
Baton Rouge, LA MSA	6.59	162
BeaumontPort Arthur, TX MSA	6.30	159
Bellingham, WA MSA	8.75	150
Benton Harbor, MI MSA	7.81	153
BergenPassaic, NJ PMSA	5.01	161
Billings, MT MSA	8.73	133
BiloxiGulfportPascagoula, MS MSA	6.66	155
Binghamton, NY MSA	9.40	160
Birmingham, AL MSA	6.41	162
Bloomington, IN MSA	14.22	119
BloomingtonNormal, IL MSA	11.34	157
Boise City, ID MSA	9.11	161
Boston, MANH PMSA	6.50	162
BoulderLongmont, CO PMSA	7.52	145
Brazoria, TX PMSA	6.45	153
Bremerton, WA PMSA	7.86	153
Bridgeport, CT PMSA	5.50	147
Brockton, MA PMSA	9.25	156
BrownsvilleHarlingenSan Benito, TX MSA	1.39	94

City	pctCityPop NumA	AgentClasses
BryanCollege Station, TX MSA	8.38	106
BuffaloNiagara Falls, NY MSA	8.14	162
CantonMassillon, OH MSA	9.75	162
Cedar Rapids, IA MSA	10.84	156
ChampaignUrbana, IL MSA	11.02	155
CharlestonNorth Charleston, SC MSA	6.78	161
CharlotteGastoniaRock Hill, NCSC MSA	6.92	162
Charlottesville, VA MSA	8.01	140
Chattanooga, TNGA MSA	7.63	161
Chicago, IL PMSA	5.14	162
ChicoParadise, CA MSA	7.72	157
Cincinnati, OHKYIN PMSA	8.25	162
ClarksvilleHopkinsville, TNKY MSA	7.02	138
ClevelandLorainElyria, OH PMSA	7.80	162
Colorado Springs, CO MSA	7.38	162
Columbia, MO MSA	10.54	126
Columbia, SC MSA	6.57	162
Columbus, GAAL MSA	4.58	131
Columbus, OH MSA	8.64	162
Corpus Christi, TX MSA	4.95	146
Dallas, TX PMSA	5.66	162
Danbury, CT PMSA	6.29	135
Danville, VA MSA	6.60	129
DavenportMolineRock Island, IAIL MSA	9.93	157
Daytona Beach, FL MSA	8.02	161
DaytonSpringfield, OH MSA	8.90	162
Decatur, AL MSA	7.07	150
Decatur, IL MSA	9.70	153
Denver, CO PMSA	6.40	162
Des Moines, IA MSA	9.95	162
Detroit, MI PMSA	6.86	162
Dothan, AL MSA	6.43	142
Dover, DE MSA	7.22	144
DuluthSuperior, MNWI MSA	9.50	158
Dutchess County, NY PMSA	8.18	153
Eau Claire, WI MSA	10.82	153
El Paso, TX MSA	1.61	136
ElkhartGoshen, IN MSA	8.40	158
Erie, PA MSA	10.42	160
EugeneSpringfield, OR MSA	8.11	158
EvansvilleHenderson, INKY MSA	9.96	159
FargoMoorhead, NDMN MSA	11.40	127
Fayetteville, NC MSA	4.84	140
FayettevilleSpringdaleRogers, AR MSA	8.16	162
FitchburgLeominster, MA PMSA	7.48	139
Flagstaff, AZUT MSA	6.37	130
Flint, MI PMSA	6.34	136

City	pctCityPop NumAgen	tClasses
Florence, AL MSA	8.27	149
Fort CollinsLoveland, CO MSA	9.23	158
Fort Lauderdale, FL PMSA	5.36	162
Fort MyersCape Coral, FL MSA	7.95	161
Fort PiercePort St. Lucie, FL MSA	7.04	158
Fort Smith, AROK MSA	7.05	146
Fort Walton Beach, FL MSA	7.81	154
Fort Wayne, IN MSA	9.23	162
Fort WorthArlington, TX PMSA	6.79	162
Fresno, CA MSA	4.02	162
Gadsden, AL MSA	8.04	124
Gainesville, FL MSA	7.96	155
GalvestonTexas City, TX PMSA	6.47	155
Gary, IN PMSA	7.48	162
Glens Falls, NY MSA	9.32	152
Goldsboro, NC MSA	6.56	122
Grand Junction, CO MSA	8.22	138
Grand RapidsMuskegonHolland, MI MSA	9.22	162
Greeley, CO PMSA	8.24	157
Green Bay, WI MSA	10.36	154
GreensboroWinston-SalemHigh Point, NC MSA	7.40	162
Greenville, NC MSA	7.66	139
GreenvilleSpartanburgAnderson, SC MSA	7.74	162
Hagerstown, MD PMSA	8.86	147
HamiltonMiddletown, OH PMSA	11.04	161
HarrisburgLebanonCarlisle, PA MSA	9.15	162
Hartford, CT MSA	6.27	160
Hattiesburg, MS MSA	7.16	122
HickoryMorgantonLenoir, NC MSA	7.90	161
Honolulu, HI MSA	1.35	124
Houma, LA MSA	6.41	113
Houston, TX PMSA	4.59	162
Huntsville, AL MSA	7.11	161
Indianapolis, IN MSA	8.27	162
Iowa City, IA MSA	11.20	120
Jackson, MI MSA	8.74	150
Jackson, MS MSA	5.48	156
Jackson, TN MSA	7.12	116
Jacksonville, FL MSA	7.24	162
Jacksonville, NC MSA	8.13	123
Jamestown, NY MSA	9.60	155
JanesvilleBeloit, WI MSA	9.62	144
Jersey City, NJ PMSA	1.66	119
Johnson CityKingsportBristol, TNVA MSA	8.92	159
Johnstown, PA MSA	8.79	158
Joplin, MO MSA	8.92	153
KalamazooBattle Creek, MI MSA	8.79	162

Kankakee, IL PMSA 8.33 139 Kansas City, MOKS MSA 8.35 162 Kenosha, WI PMSA 8.78 139 KilleenTemple, TX MSA 5.98 155 Knoxville, TN MSA 8.85 162 Kokomo, IN MSA 7.72 128 La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, IA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakclandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 3.05 88 Las Cruces, NM MSA 3.05 88 Las Cruces, NM MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lexington, KY MSA 9.36 154 Lina, OH MSA 11.28 154 Lineoln, NE MSA 7.91	City	pctCityPop	NumAgentClasses
Kenosha, WI PMSA 8.78 139 KilleenTemple, TX MSA 5.98 155 Knoxville, TN MSA 8.85 162 Kokomo, IN MSA 7.72 128 La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 Lake Charles, LA MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 3.05 88 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 Louwell, MANH PMSA 8.38 156 Lowell, MANH PMSA <td>Kankakee, IL PMSA</td> <td>8.33</td> <td>139</td>	Kankakee, IL PMSA	8.33	139
KilleenTemple, TX MSA 5.98 155 Knoxville, TN MSA 8.85 162 Kokomo, IN MSA 7.72 128 La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 9.23 10 Las Cruces, NM MSA 3.05 88 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Limcoln, NE MSA 8.47 149 Limcoln, NE MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA	Kansas City, MOKS MSA	8.35	162
Knoxville, TN MSA 8.85 162 Kokomo, IN MSA 7.72 128 La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 11.28 154 Limicoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 Lowell, MANH PMSA 2.57 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.90 162 Lynchburg, VA MSA	Kenosha, WI PMSA	8.78	139
Kokomo, IN MSA 7.72 128 La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Laredo, TX MSA 3.05 88 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MAWH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Lous Ville, KYIN MSA 7.90 162 Louwell, MANH PMSA 8.38 156 Lynchburg, VA MSA	KilleenTemple, TX MSA	5.98	155
La Crosse, WIMN MSA 11.91 136 Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lexington, KY MSA 8.47 149 Lincoln, NE MSA 11.28 154 Lincoln, NE MSA 11.28 154 Lincoln, NE MSA 7.91 162 Lincoln, NE MSA 7.18 147 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 7.91 162 Louisville, KYIN MSA 7.90 162 Lowil, MANH PMSA <td>Knoxville, TN MSA</td> <td>8.85</td> <td>162</td>	Knoxville, TN MSA	8.85	162
Lafayette, IN MSA 12.14 149 Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 Lansing-East Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Lav Cegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lima, OH MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.90 162 Lowell, MANH PMSA 8.86 154 Macon, GA MSA 6.18 161 Mariotheter, NH	Kokomo, IN MSA	7.72	128
Lafayette, LA MSA 6.55 153 Lake Charles, LA MSA 7.15 146 Lake Charles, LA MSA 7.37 162 Lancaster, PA MSA 8.29 160 Lansing-East Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 11.28 154 Lime, OH MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Macon, GA MSA 6.18 161 Mansfield, OH MSA	La Crosse, WIMN MSA	11.91	136
Lake Charles, LA MSA 7.15 146 LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Cruces, NM HSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lexington, KY MSA 8.47 149 Licoln, NE MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 Lous ville, KYIN MSA 2.57 162 Louis ville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Mansfield, OH MSA </td <td>Lafayette, IN MSA</td> <td>12.14</td> <td>149</td>	Lafayette, IN MSA	12.14	149
LakelandWinter Haven, FL MSA 7.37 162 Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 Louisville, KYIN MSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 8.86 154 Manchester, NH P	Lafayette, LA MSA	6.55	153
Lancaster, PA MSA 8.29 160 LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Limcoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 Lousville, KYIN MSA 7.90 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.	Lake Charles, LA MSA	7.15	146
LansingEast Lansing, MI MSA 10.53 162 Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little Rock-North Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Louisville, KYIN MSA 7.94 156 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 Medfor	LakelandWinter Haven, FL MSA	7.37	162
Laredo, TX MSA 0.23 10 Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 Lous AngelesLong Beach, CA PMSA 2.57 162 Lous Lowell, MANH PMSA 2.57 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.90 162 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 8.86 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Merned, CA MSA <td>Lancaster, PA MSA</td> <td>8.29</td> <td>160</td>	Lancaster, PA MSA	8.29	160
Las Cruces, NM MSA 3.05 88 Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162	LansingEast Lansing, MI MSA	10.53	162
Las Vegas, NVAZ MSA 6.25 162 Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Merced, CA MSA 3.79 130	Laredo, TX MSA	0.23	10
Lawrence, MANH PMSA 6.44 149 Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.15 162 Memphis, TNARMS MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA	Las Cruces, NM MSA	3.05	88
Lexington, KY MSA 8.47 149 Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 <	Las Vegas, NVAZ MSA	6.25	162
Lima, OH MSA 9.36 154 Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 <tr< td=""><td>Lawrence, MANH PMSA</td><td>6.44</td><td>149</td></tr<>	Lawrence, MANH PMSA	6.44	149
Lincoln, NE MSA 11.28 154 Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lexington, KY MSA	8.47	149
Little RockNorth Little Rock, AR MSA 7.91 162 LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lima, OH MSA	9.36	154
LongviewMarshall, TX MSA 7.18 147 Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lincoln, NE MSA	11.28	154
Los AngelesLong Beach, CA PMSA 2.57 162 Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Little RockNorth Little Rock, AR MSA	7.91	162
Louisville, KYIN MSA 7.90 162 Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	LongviewMarshall, TX MSA	7.18	147
Lowell, MANH PMSA 8.38 156 Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Los AngelesLong Beach, CA PMSA	2.57	162
Lubbock, TX MSA 7.94 156 Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Louisville, KYIN MSA	7.90	162
Lynchburg, VA MSA 8.86 154 Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lowell, MANH PMSA	8.38	156
Macon, GA MSA 6.18 161 Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lubbock, TX MSA	7.94	156
Madison, WI MSA 9.44 159 Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Lynchburg, VA MSA	8.86	154
Manchester, NH PMSA 8.66 114 Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Macon, GA MSA	6.18	161
Mansfield, OH MSA 8.84 142 McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Madison, WI MSA	9.44	159
McAllenEdinburgMission, TX MSA 1.10 86 MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Manchester, NH PMSA	8.66	114
MedfordAshland, OR MSA 8.19 148 MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	Mansfield, OH MSA	8.84	142
MelbourneTitusvillePalm Bay, FL MSA 8.15 162 Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	McAllenEdinburgMission, TX MSA	1.10	86
Memphis, TNARMS MSA 5.31 162 Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	MedfordAshland, OR MSA	8.19	148
Merced, CA MSA 3.79 130 Miami, FL PMSA 1.56 157 MiddlesexSomersetHunterdon, NJ PMSA 6.07 162 MilwaukeeWaukesha, WI PMSA 7.78 162 MinneapolisSt. Paul, MNWI MSA 9.06 162	MelbourneTitusvillePalm Bay, FL MSA	8.15	162
Miami, FL PMSA1.56157MiddlesexSomersetHunterdon, NJ PMSA6.07162MilwaukeeWaukesha, WI PMSA7.78162MinneapolisSt. Paul, MNWI MSA9.06162	Memphis, TNARMS MSA	5.31	162
MiddlesexSomersetHunterdon, NJ PMSA6.07162MilwaukeeWaukesha, WI PMSA7.78162MinneapolisSt. Paul, MNWI MSA9.06162	Merced, CA MSA	3.79	130
MilwaukeeWaukesha, WI PMSA7.78162MinneapolisSt. Paul, MNWI MSA9.06162	Miami, FL PMSA	1.56	157
MinneapolisSt. Paul, MNWI MSA 9.06 162	MiddlesexSomersetHunterdon, NJ PMSA	6.07	162
<u>*</u>	MilwaukeeWaukesha, WI PMSA	7.78	162
	MinneapolisSt. Paul, MNWI MSA	9.06	162
Mobile, AL MSA 6.76 162	Mobile, AL MSA	6.76	162
Modesto, CA MSA 5.32 160	Modesto, CA MSA	5.32	160
MonmouthOcean, NJ PMSA 7.99 162	MonmouthOcean, NJ PMSA	7.99	162
Monroe, LA MSA 5.86 130	Monroe, LA MSA	5.86	130
Montgomery, AL MSA 5.87 158	Montgomery, AL MSA	5.87	158
Muncie, IN MSA 11.07 136	Muncie, IN MSA	11.07	136
Myrtle Beach, SC MSA 7.87 150	Myrtle Beach, SC MSA	7.87	150

City	pctCityPop N	umAgentClasses
Naples, FL MSA	6.67	142
Nashua, NH PMSA	8.24	118
Nashville, TN MSA	8.11	162
NassauSuffolk, NY PMSA	6.99	162
New Bedford, MA PMSA	7.10	147
New HavenMeriden, CT PMSA	6.93	155
New Orleans, LA MSA	5.05	162
New York, NY PMSA	2.18	162
Newark, NJ PMSA	4.87	162
Newburgh, NYPA PMSA	7.30	158
NorfolkVirginia BeachNewport News, VANC MSA	6.18	162
Oakland, CA PMSA	3.67	162
Ocala, FL MSA	7.14	153
OdessaMidland, TX MSA	6.51	153
Oklahoma City, OK MSA	7.61	162
Olympia, WA PMSA	8.12	152
Omaha, NEIA MSA	9.13	161
Orange County, CA PMSA	4.45	162
Orlando, FL MSA	6.64	162
Panama City, FL MSA	7.94	152
Pensacola, FL MSA	7.45	161
PeoriaPekin, IL MSA	9.61	161
Philadelphia, PANJ PMSA	5.77	162
PhoenixMesa, AZ MSA	6.83	162
Pittsburgh, PA MSA	8.86	162
Portland, ME MSA	9.19	152
PortlandVancouver, ORWA PMSA	7.96	162
ProvidenceFall RiverWarwick, RIMA MSA	7.64	162
ProvoOrem, UT MSA	9.26	151
Pueblo, CO MSA	5.10	126
Punta Gorda, FL MSA	8.11	135
Racine, WI PMSA	8.11	132
RaleighDurhamChapel Hill, NC MSA	6.68	162
Reading, PA MSA	8.11	162
Redding, CA MSA	8.50	153
Reno, NV MSA	7.47	160
RichlandKennewickPasco, WA MSA	7.05	150
RichmondPetersburg, VA MSA	6.43	162
RiversideSan Bernardino, CA PMSA	4.70	162
Roanoke, VA MSA	9.45	160
Rochester, MN MSA	9.59	144
Rochester, NY MSA	8.32	162
Rockford, IL MSA	8.63	160
Rocky Mount, NC MSA	5.96	145
Sacramento, CA PMSA	6.15	162
SaginawBay CityMidland, MI MSA	8.98	162
Salem, OR PMSA	8.47	158
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City	pctCityPop	NumAgentClasses
Salinas, CA MSA	3.75	134
Salt Lake CityOgden, UT MSA	8.37	162
San Antonio, TX MSA	3.87	162
San Diego, CA MSA	4.99	162
San Francisco, CA PMSA	2.81	157
San Jose, CA PMSA	3.22	158
San Luis ObispoAtascaderoPaso Robles, CA MSA	7.32	148
Santa BarbaraSanta MariaLompoc, CA MSA	5.07	156
Santa CruzWatsonville, CA PMSA	5.07	144
Santa Fe, NM MSA	3.45	92
Santa Rosa, CA PMSA	6.41	161
SarasotaBradenton, FL MSA	7.63	161
Savannah, GA MSA	5.37	146
ScrantonWilkes-BarreHazleton, PA MSA	9.12	162
SeattleBellevueEverett, WA PMSA	6.80	162
Sharon, PA MSA	9.39	152
Sheboygan, WI MSA	9.96	138
ShreveportBossier City, LA MSA	5.84	155
Sioux City, IANE MSA	9.33	127
Sioux Falls, SD MSA	9.97	125
South Bend, IN MSA	9.48	159
Spokane, WA MSA	8.82	162
Springfield, IL MSA	8.26	128
Springfield, MA MSA	9.34	161
Springfield, MO MSA	9.90	160
St. Cloud, MN MSA	12.76	155
St. Joseph, MO MSA	8.43	140
St. Louis, MOIL MSA	7.96	162
StamfordNorwalk, CT PMSA	4.42	131
State College, PA MSA	12.54	148
StocktonLodi, CA MSA	4.95	160
Sumter, SC MSA	4.97	103
Syracuse, NY MSA	9.91	162
Tacoma, WA PMSA	7.80	162
Tallahassee, FL MSA	6.52	149
TampaSt. PetersburgClearwater, FL MSA	7.35	162
Terre Haute, IN MSA	9.80	151
Toledo, OH MSA	9.25	162
Topeka, KS MSA	8.58	146
Trenton, NJ PMSA	5.72	144
Tucson, AZ MSA	6.08	162
Tulsa, OK MSA	7.99	162
Tuscaloosa, AL MSA	7.66	125
Tyler, TX MSA	6.93	147
UticaRome, NY MSA	8.73	162
VallejoFairfieldNapa, CA PMSA	5.46	158
Ventura, CA PMSA	4.98	159

City	pctCityPop NumAgen	tClasses
VinelandMillvilleBridgeton, NJ PMSA	5.56	138
VisaliaTularePorterville, CA MSA	4.10	148
Waco, TX MSA	7.61	154
Washington, DCMDVAWV PMSA	4.12	162
Waterbury, CT PMSA	5.25	108
WaterlooCedar Falls, IA MSA	11.07	135
Wausau, WI MSA	9.46	149
West Palm BeachBoca Raton, FL MSA	6.11	162
Wichita Falls, TX MSA	8.06	140
Wichita, KS MSA	8.41	162
Williamsport, PA MSA	8.89	155
Wilmington, NC MSA	7.48	160
WilmingtonNewark, DEMD PMSA	7.57	161
Worcester, MACT PMSA	8.79	159
Yakima, WA MSA	5.53	149
Yolo, CA PMSA	5.77	126
York, PA MSA	9.28	161
YoungstownWarren, OH MSA	9.05	162
Yuba City, CA MSA	5.95	137
Yuma, AZ MSA	4.75	104

Appendix F. Estimated Incidence of Illiteracy per City.

Table 17. Estimated Incidence of Illiteracy per City by Sociodemographic Category.

	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race	Race	Race	Race	Race	Inc	Inc	Inc	Inc
PMSA/MSA	F	\mathbf{M}	Y	\mathbf{M}	O	No HS	HS	Coll	Prof	\mathbf{A}	В	H	O	\mathbf{W}	30K	30-50	50-75	75 +
Abilene, TX MSA	6,295	7,006	3,505	5,563	4,816	11,840	8,233	803	52	172	1,233	6,547	262	5,332	13,774	2,078	387	30
Akron, OH PMSA	34,882	39,171	14,928	35,054	28,521	54,372	46,348	5,365	354	995	12,373	2,002	1,019	33,727	66,844	14,790	3,891	262
Albany, GA MSA	6,049	6,383	2,940	5,734	4,241	14,455	6,986	655	48	83	10,566	610	89	3,245	12,439	2,002	526	30
AlbanySchenectady																		
Troy, NY MSA	40,055	45,273	16,257	41,012	33,593	59,730	50,461	6,206	671	1,598	. ,	5,277	1,351	40,104	74,130	18,150	5,263	284
Albuquerque, NM MSA	34,833	40,206	16,101	36,232	25,302	63,421	42,321	5,366	525	1,196	,	91,912	7,351	19,701	70,983	13,238	3,405	268
Alexandria, LA MSA	6,240	7,078	2,937	5,960	5,250	16,132	7,562	584	46	78	7,076	844	259	4,586	14,191	1,770	387	29
AllentownBethlehem																		
Easton, PA MSA	32,491	36,976	12,734	32,537	29,983	61,076	42,286	4,238		1,046	,	13,650	837	32,385	63,683	13,680	3,525	217
Altoona, PA MSA	6,742	7,522	2,750	6,402	6,433	11,744	9,896	593	37	81	196	210	114	7,259	14,893	2,259	429	21
Amarillo, TX MSA	10,611	11,786	5,163	10,060	8,332	21,319	13,251	1,370		479	1,844	11,842	407	8,838	22,160	3,718	899	61
Anchorage, AK MSA	11,839	14,690	6,452	14,040	4,816	16,862	16,325	2,105	162	1,278	2,633	4,520	3,471	10,015	20,457	5,784	2,155	147
Ann Arbor, MI PMSA	23,466	27,903	12,700	25,296	12,724	25,425	27,793	5,299	565	2,241	6,380	3,634	1,155	22,612	39,613	10,125	4,298	355
Anniston, AL MSA	5,711	6,306	2,575	5,345	4,987	13,879	7,083	473	45	53	3,720	657	224	4,953	12,461	1,937	352	22
AppletonOshkosh																		
Neenah, WI MSA	17,067	21,100	8,045	18,558	12,676	26,996	25,145	2,532	131	422	384	1,668	469	18,995	32,330	9,487	2,050	99
Asheville, NC MSA	11,731	12,922	4,634	11,203	11,138	20,647	14,174	1,885	144	266	,	1,791	293	11,607	24,276	4,238	873	79
Athens, GA MSA	7,919	9,088	5,511	6,737	4,678	13,266	9,670	1,270	128	385	4,828	2,012	188	6,852	17,139	2,623	609	50
Atlanta, GA MSA	192,627	223,248	94,990	213,548	103,601	349,775	218,152	39,640	2,695	13,852	199,202	81,115	7,553	135,093	342,915	87,620	26,714	2,287
AtlanticCape May, NJ																		
PMSA	18,104	20,104	6,478	18,276	16,950	36,377	22,641	2,432	157	1,360	8,179	10,339	742	14,885	34,485	7,550	2,093	132
AuburnOpelika, AL																		
MSA	5,798	6,691	4,409	4,729	3,090	8,832	7,882	749	83	237	4,950	580	183	4,765	12,682	1,930	438	32
AugustaAiken, GA																		
SC MSA	22,177	24,594	10,269	22,180	16,233	47,004	27,103	2,805	211	672	25,499	3,550	732	15,734	45,329	7,833	2,138	143
AustinSan Marcos, TX	55.506	60.454	22.520	50.000	20.500	04.206	62.607	12 222	0.12	4.500	15.050	04.554	2 470	41 407	104 202	24.074	7.220	700
MSA	55,586	68,454	33,520	58,909	28,508	94,296	62,687	13,222	943	4,533	15,353	94,554	2,479	41,427	104,303	24,974	7,338	700
Bakersfield, CA MSA	29,006	35,289	15,583	29,725	20,149	90,768	33,922	2,522	171	2,149	5,088	72,900	2,372	18,125	64,958	8,980	2,779	172
Baltimore, MD PMSA	126,827	138,921	50,174	131,720	98,723	224,513	143,344	21,530	2,025	7,178	116,828	15,720	4,582	96,509	216,721	58,249	18,537	1,312
BarnstableYarmouth, MA MSA	7,655	8,224	1.961	7.118	9,539	7,476	9,637	1.528	130	90	366	507	522	7.827	13,337	3,538	949	74
	.,	- /	,	. ,	. ,	.,	. ,	,	309				794	. ,	- ,			188
Baton Rouge, LA MSA	29,576	33,355	15,800	29,232	18,768	56,626	37,287	4,083	309	902	32,237	3,263	794	22,075	60,336	10,567	3,146	188
BeaumontPort Arthur, TX MSA	18,463	22,015	8,631	18,271	16,078	41.882	25,267	1.837	101	724	15,869	9,281	615	14,290	39,774	6,601	1,780	103
Bellingham, WA MSA	8,351	9,807	4,678	7,991	5,944	11,560	11,735	1,837	89	549	- ,	2,638	1.368	8,070	17.318	3,284	797	53
Beilingnam, w.A. MSA Benton Harbor, MI MSA	8,331	9,807	3,358	8,089	7,154	15,010	10,801	940		175		1,625	327	7,572	16,281	3,284	797	53 57
Demon narbor, MI MSA	0,141	9,180	3,338	0,089	7,154	15,010	10,801	940	84	1/5	3,296	1,625	321	1,512	10,281	3,213	191	37

DMC A /MC A	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race	Race			Race	Inc	Inc	Inc	Inc
PMSA/MSA	F	M	Y	M	0	No HS	HS	Coll	Prof	A	В	H	0	W	30K	30-50	50-75	75+
BergenPassaic, NJ PMSA	69,444	77,870	25,861	72,398	59,667	122,394	75,112	14,321	1,120	11,865	18,264	76,442	3,195	51 037	115,325	29,140	10,829	1,136
Billings, MT MSA	6,312	7,234	2,686	6,666	4,796	8,382	8,461	1,253	57	58	81	1,286	559	6,540	12,932	2,525	546	
BiloxiGulfport	0,512	7,234	2,000	0,000	4,770	0,502	0,401	1,233	37	50	01	1,200	337	0,540	12,732	2,525	540	71
Pascagoula, MS MSA	15,230	18,054	7,483	15,477	11,563	30,411	20,975	1,670	128	753	12,307	2,298	629	12,685	32,858	5,745	1,282	77
Binghamton, NY MSA	12,869	14,428	5,211	12,533	11,872	21,752	17,171	1,505	158	597	997	1,367	396	13,248	26,640	4,758	1,109	76
Birmingham, AL MSA	41,401	43,694	18,258	39,978	31,548	77,406	47,666	6,655	459	772	47,010	4,013	930	29,371	78,542	16,062	4,120	337
Bloomington, IN MSA	6,672	7,248	5,185	5,078	3,328	6,333	8,372	1,205	142	522	699	652	285	6,573	14,133	1,984	563	42
BloomingtonNormal,																		
IL MSA	7,730	8,719	4,230	7,485	4,994	8,777	10,137	1,609	96	294	1,159	1,010	214	7,832	14,104	3,414	1,062	65
Boise City, ID MSA	19,837	24,517	10,500	21,098	13,222	35,980	26,533	3,313	200	585	287	12,173	1,321	20,084	41,277	8,104	2,132	
Boston, MANH PMSA	175,434	193,390	74,034	178,791	135,298	233,686	183,363	40,176	4,002	18,337	39,493	63,796	10,354	156,916	287,079	77,717	27,655	2,555
BoulderLongmont, CO	40.400	40.000		40.000		44.540	44.450		***	***				40.554	40.44	=-		
PMSA	10,693	13,250	6,582	10,999	5,970	11,748	11,178	3,160	290	685	295	7,283	563	10,571	19,417	4,472	1,543	184
Brazoria, TX PMSA	10,705	14,154	5,256	12,621	7,040	25,972	14,600	1,338	82	456	3,289	16,412	483	8,826	22,260	4,376	1,590	88
Bremerton, WA PMSA	10,809	13,884	5,073	12,332	7,762	14,659	15,948	1,901	123	990	1,111	2,832	1,648	10,746	20,837	5,308	1,575	93
Bridgeport, CT PMSA	17,047 12,572	18,789 14,391	6,635	17,152	14,735 8,916	33,109 20,706	18,496 17,096	2,843 1,811	284 113	745 331	7,709	16,317 3,184	977 1,789	13,039	29,068 22,791	7,273 6,058	2,409 1,819	238 81
Brockton, MA PMSA BrownsvilleHarlingen-	12,372	14,391	5,244	13,712	8,910	20,700	17,090	1,611	113	331	2,838	3,164	1,769	11,715	22,791	0,038	1,819	01
-San Benito, TX MSA	15,514	16,785	8,408	13,672	11,687	58,277	13,721	1,194	96	149	218	85,118	145	3,135	36,743	3,285	691	50
BryanCollege Station,	10,011	10,705	0,100	15,072	11,007	50,277	15,721	1,17.	,,,	,	210	05,110	1.0	5,155	50,7 15	5,205	0,1	20
TX MSA	7,512	9,533	7,520	5,193	3,337	11,980	10,238	1,189	121	711	2,834	9,138	250	6,078	17,997	2,035	556	47
BuffaloNiagara Falls,	<i>,-</i> =	,	,	,	,	,	,	,	_		,	,		,	,	,		
NY MSA	59,398	66,079	22,790	58,867	54,687	101,619	76,018	7,944	758	1,346	21,629	9,822	2,452	55,797	117,474	22,920	6,571	370
CantonMassillon, OH																		
MSA	20,451	23,174	8,322	20,192	18,631	36,550	28,829	2,165	150	182	4,519	1,041	642	20,870	41,641	8,330	1,875	106
Cedar Rapids, IA MSA	9,259	10,801	4,045	9,592	7,464	11,156	13,172	1,700	85	215	530	595	234	9,975	17,384	4,554	1,100	63
ChampaignUrbana, IL		10.0					12.55								10			
MSA	9,105	10,987	6,231	7,949	6,032	10,033	12,528	1,525	178	1,241	2,726	1,588	341	8,611	18,692	3,935	899	59
CharlestonNorth	22.220	25.026	11 116	22 104	16 506	41.504	26 071	2 700	202	507	25 450	2 207	741	16 470	15 501	0 200	2 111	106
Charleston, SC MSA CharlotteGastonia	22,239	25,926	11,116	22,194	16,596	41,594	26,971	3,789	282	587	25,450	3,387	741	16,470	45,584	8,388	2,111	186
Rock Hill, NCSC MSA	73,511	84,564	33,735	78,342	49,869	147,378	86,721	13,228	732	2,272	53,558	22,263	2,218	61,011	139,202	32,021	8,421	690
Charlottesville, VA	73,311	04,504	33,733	70,342	47,007	147,576	00,721	13,220	132	2,212	33,336	22,203	2,210	01,011	137,202	32,021	0,421	070
MSA	8,317	9,118	4,310	7,863	5,840	12,736	8,595	1,777	178	519	4,014	1,078	213	7,406	15,760	3,388	813	82
Chattanooga, TNGA	-,-		,	.,	- ,-	,	-,	,			,-	,		.,		-,		
MSA	22,222	24,517	9,377	21,820	18,757	46,415	26,732	3,040	214	499	11,732	1,720	619	20,171	44,831	8,492	1,906	151
Chicago, IL PMSA	393,957	454,454	183,535	410,698	280,987	761,592	439,205	74,246	5,916	39,806	250,626	412,972	14,798	276,279	698,970	169,111	58,928	4,850
ChicoParadise, CA																		
MSA	10,064	11,909	5,257	8,894	9,512	18,880	13,708	1,331	86	579	463	6,900	1,218	9,338	22,433	3,145	857	55
Cincinnati, OHKYIN																		
PMSA	72,662	81,784	32,158	73,994	55,609	134,980	87,987	11,568	870	1,808	33,751	4,516	1,966	68,167	135,051	31,772	8,544	667
Clarksville																		
Hopkinsville, TNKY MSA	6,132	7,594	3,781	6,257	3,500	10,696	8,988	786	49	278	4,469	2,093	389	5,164	13,345	2,711	481	22
ClevelandLorain	0,132	7,354	3,761	0,237	3,300	10,090	0,700	760	47	270	4,407	2,093	367	3,104	13,343	2,/11	401	22
Elyria, OH PMSA	113,490	124,577	43,635	114,321	98,187	200,903	141,393	16,466	1,293	3,350	68,667	22,163	3,331	97,554	211,739	47,799	13,365	915
Colorado Springs, CO	115,170	121,077	15,055	111,521	,0,10,	200,705	111,000	10,100	1,275	5,550	00,007	22,100	5,551	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	211,757	,	10,000	,,,,
MSA	23,905	29,531	12,618	26,177	14,543	31,920	32,696	4,426	355	1,330	5,262	17,330	1,902	21,881	47,304	10,465	2,945	217
Columbia, MO MSA	6,917	7,825	4,600	6,125	3,900	8,221	8,365	1,393	137	402	1,755	734	294	6,720	14,364	2,583	575	44
Columbia, SC MSA	27,128	30,606	13,638	27,639	17,433	45,525	32,419	4,983	363	949	29,538	5,011	848	19,825	52,758	11,625	2,774	193
Columbus, GAAL																		
MSA	8,907	10,487	5,031	8,319	6,689	19,063	11,540	1,021	90	342	14,107	2,527	449	5,193	19,433	3,144	683	52
Columbus, OH MSA	71,216	80,710	34,795	73,273	47,061	109,009	88,004	13,559	912	3,871	32,971	8,824	2,982	64,860	129,697	32,980	9,153	610
Corpus Christi, TX MSA		14,489	6,057	12,756	8,425	28,667	15,280	1,448	108	302	1,266	39,454	447	6,853	25,885	4,255	1,297	76
Dallas, TX PMSA	156,677	189,872	83,206	173,419	85,073	349,860	172,237	31,052		13,920	82,004	232,551	6,986	108,867	293,094	67,635	20,747	
Danbury, CT PMSA	8,921	10,449	3,148	10,610	6,201	13,037	9,011	2,345	201	580	1,003	4,070	464	8,634	13,633	3,746	1,630	
Danville, VA MSA	5,797	6,115	1,996	5,558	5,661	16,093	6,731	371	35	44	6,253	310	79	4,303	12,529	1,884	326	19
DavenportMoline																		
Rock Island, IAIL	12 262	14.001	5.064	12.094	11 242	21.020	10.071	1 940	121	270	2 605	5 120	471	12 900	26 200	5 5 1 0	1 421	90
MSA DaytonSpringfield, OH	13,363	14,991	5,964	12,984	11,243	21,930	18,071	1,840	121	370	2,605	5,139	471	12,809	26,300	5,519	1,421	80
MSA	48,064	53,238	21,309	46,573	39,934	80,711	63,537	6,170	521	1,126	22,757	3,682	1,660	44,321	91,174	20,363	5,600	335
Daytona Beach, FL	40,004	33,230	21,507	40,575	37,734	00,711	05,557	0,170	321	1,120	22,737	3,002	1,000	44,521	71,174	20,303	5,000	333
MSA	23,235	26,640	7,954	20,905	28,683	42,554	32,068	2,594	200	608	7,394	9,916	792	21,578	50,040	8,157	1,714	135
Decatur, AL MSA	7,028	8,245	2,918	7,488	5,660	17,263	9,004	735		27	3,643	895	557	6,468	14,626	2,593	790	
Decatur, IL MSA	5,788	6,542	2,427	5,732	5,063	9,542	8,306	654		86		312	104	5,702	11,334	2,448	630	
Denver, CO PMSA		114,456		105,120	59,159		109,411		1,418	6,383		121,034	5,274		166,596	47,233	13,807	
Des Moines, IA MSA	18,620		8,707	18,933	13,195	25,588	23,748	3,725	203	814	2,957	4,440	637	18,328	33,679	9,154	2,211	142
Detroit, MI PMSA		244,758	90,648			404,129			2,471	10,183		40,081	10,607		386,515	86,923	34,359	
Dothan, AL MSA	6,707	7,761	3,037	6,761	5,447	15,195	8,842	702		135	5,147	902	300	5,682	14,804	2,246	517	29
Dover, DE MSA	6,042	6,898	2,783	6,044	4,753	12,661	7,936	639	52	194	4,056	1,063	318	5,146	12,309	2,572	541	28
DuluthSuperior, MN																		
WI MSA	10,130	11,989	4,318	10,144	9,327	14,561	14,960	1,359	90	127	153	503	660	11,008	21,041	4,270	1,029	41
Dutchess County, NY																		
PMSA	13,164	16,613	5,167	15,109	10,942	24,059	16,771	2,193		620	4,629	5,147	489	12,725	24,577	5,750	2,245	
Eau Claire, WI MSA	7,220	8,664	3,605	7,121	5,938	12,601	10,530	861	52	108		304	145	8,058	15,609	2,980	553	
El Paso, TX MSA	31,597	34,926	17,073	29,773	21,351	98,997	32,993	2,958	202	713	3,400	166,164	887	6,533	73,341	7,710	1,733	120
ElkhartGoshen, IN	0.77-	10.055	4	0.505		21.51	10 =0-				1.00	4 *00		0.25	16000	400:	=0-	
MSA Edit DA MSA	8,555	10,068	4,171	8,622	6,587	21,514	10,780	828		216		4,605	225	8,374	16,987	4,054	782	53
Erie, PA MSA	13,969	16,062	6,482	13,625	11,736	24,707	19,391	1,631	123	170	2,456	1,906	331	14,385	29,908	5,237	1,119	59
EugeneSpringfield, OR MSA	16,308	19,157	7,798	16,310	13,064	23,945	22,472	2,417	207	636	458	3,840	1,466	16,706	34,149	6,501	1,429	96
EvansvilleHenderson,	10,308	17,137	1,170	10,510	13,004	43,743	22,412	∠,41/	207	050	430	3,040	1,400	10,700	34,149	0,501	1,429	70
INKY MSA	12.862	14,057	5,422	12,349	11,200	21,362	17,777	1,409	111	150	2,127	536	223	13,178	25,317	5,001	1,335	78
	_,502	.,	-,	_,,	-,200	,502	.,,,,	-,,		100	_,,	233	223	-,175	-,/	2,501	-,000	. 0

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
FargoMoorhead, ND																		
MN MSA	5,828	7,564	3,672	5,849	3,879	7,062	8,649	1,238		140	127	311	274	6,645	12,728	2,452	559	
Fayetteville, NC MSA FayettevilleSpringdale-	13,547	17,493	8,732	13,809	8,061	23,249	20,829	1,682	102	731	17,648	6,149	1,310	8,963	30,638	5,469	1,160	57
-Rogers, AR MSA	14,608	17,982	7,457	15,011	11,209	31,122	19,501	1,874	133	385	487	5,756	1,095	15,152	32,670	5,295	1,089	87
FitchburgLeominster,	14,000	17,702	7,437	13,011	11,207	31,122	17,501	1,074	155	303	407	3,730	1,075	13,132	32,070	3,273	1,007	07
MA PMSA	6,972	7,975	2,836	7,372	5,533	14,026	8,900	897	68	233	602	3,138	291	6,862	13,297	3,264	843	35
Flagstaff, AZUT MSA	5,531	6,521	3,052	5,800	3,101	10,152	6,735	936		97	188	3,926	3,281	4,011	11,759	2,037	531	
Flint, MI PMSA	11,686	12,573	5,466	11,153	8,873	24,508	16,061	796		177	14,232	1,819	767	7,797	23,836	3,766	1,284	
Florence, AL MSA	7,313	8,108	2,963	7,081	6,681	16,853	9,040	739	62	41	3,292	504	139	6,924	15,534	2,459	570	40
Fort CollinsLoveland, CO MSA	11,425	14,043	6,847	11,764	6,565	12,248	14,614	2,692	215	342	217	6,041	604	11,740	21,819	5,127	1,489	124
Fort Lauderdale, FL	11,423	14,043	0,047	11,704	0,505	12,240	14,014	2,072	. 213	342	217	0,041	004	11,740	21,017	3,127	1,407	124
PMSA	82,919	91,764	30,328	83,366	76,433	150,244	100,576	12,926	992	4,194	55,695	91,917	5,735	55,552	155,230	34,059	9,404	795
Fort MyersCape Coral,																		
FL MSA	22,697	26,640	6,586	19,858	32,521	40,590	30,201	3,150	249	335	4,701	13,058	655	21,751	45,553	9,363	2,034	214
Fort PiercePort St.	16 674	19,076	4 709	14556	22 270	21.702	21 646	2 160	170	245	6 267	7.750	550	15 150	22 776	6.069	1 454	170
Lucie, FL MSA Fort Smith, AROK	16,674	19,076	4,798	14,556	23,278	31,793	21,646	2,168	170	245	6,367	7,750	552	15,158	33,776	6,068	1,454	170
MSA	8,220	9,579	3,635	8,402	6,738	20,132	10,792	739	44	364	1,004	2,656	808	7,991	18,469	2,728	498	40
Fort Walton Beach, FL	-,	.,	,,,,,,	-, -	.,	-, -	-,				,	,			.,	,		
MSA	8,232	10,220	3,819	8,571	7,036	11,478	11,787	1,286		507	2,646	2,651	622	7,834	16,986	3,401	896	
Fort Wayne, IN MSA	22,089	25,443	10,074	22,604	16,961	38,065	30,864	2,603	199	469	5,322	4,294	580	22,018	42,749	10,133	2,445	133
Fort WorthArlington,	70.250	02.512	20.160	95,000	40 747	165 000	05 245	12.007	700	5.042	20.597	00.551	2 700	61 700	150 244	24 172	0.053	7.47
TX PMSA Fresno, CA MSA	79,250 42,064	92,513 49,389	39,169 22,913	85,098 41,413	48,747 29,070	165,000 131,611	95,345 45,957	13,087 4,220		5,043 6,066	30,586 7,523	90,551 120,101	3,780 3,687	61,790 21,531	150,344 94,890	34,172 12,297	9,853 3,415	
Gadsden, AL MSA	5,270	5,757	2,052	5,010	5,034	12,785	6,650	4,220		38	2,249	440	131	4,954	11,379	1,717	3,415	
Gainesville, FL MSA	11,630	12,960	7,782	9,777	7,152	13,954	14,535	1,996		824	7,499	4,193	600	9,286	24,828	3,609	913	
GalvestonTexas City,	,000	-=,,,,,,,	.,,,,,	-,	.,	-5,754	,000	-,,,,	201	024	.,.,,	.,.,5	000	.,200	,020	2,007	,,,,	02
TX PMSA	11,953	14,074	5,104	12,862	9,166	23,631	15,070	1,738	137	530	6,277	13,112	487	9,132	22,295	5,024	1,740	119
Gary, IN PMSA	31,307	34,979	13,899	31,198	24,781	58,929	42,469	3,317	255	640	22,297	20,969	948	23,985	60,321	11,829	4,403	194
Glens Falls, NY MSA	5,995	7,286	2,212	6,445	5,683	11,529	8,228	714		54	416	563	164	6,582	12,843	2,507	490	
Goldsboro, NC MSA	5,546	6,457	2,514	5,681	4,386	12,661	7,253	601	35	120	6,859	1,463	162	3,880	12,425	1,856	373	23
Grand Junction, CO MSA	5,621	6,429	2,524	5,331	5,135	9,483	7,589	767	56	45	77	3,565	276	5,538	11,990	1,959	473	32
Grand Rapids	3,021	0,429	2,324	3,331	3,133	7,403	1,309	707	30	43	//	3,303	270	3,336	11,990	1,939	4/3	32
MuskegonHolland, MI																		
MSA	46,612	54,465	23,412	47,779	32,324	83,241	61,592	7,019	448	1,475	12,417	17,581	1,866	44,580	90,097	20,525	5,756	324
Greeley, CO PMSA	8,310	10,214	4,583	8,730	5,274	18,241	11,074	1,068		137	133	13,372	352	7,215	17,205	3,600	882	
Green Bay, WI MSA	10,733	13,108	5,114	11,737	7,483	17,386	15,348	1,753	74	416	384	2,304	713	11,359	20,346	5,551	1,334	75
GreensboroWinston-																		
SalemHigh Point, NC MSA	63,050	71,010	27,041	64,269	50,005	129,653	76,804	9,508	551	1,466	43,234	18,497	1,820	52.782	124,910	26,219	5,868	442
Greenville, NC MSA	7,053	7,357	3,940	6,229	4,624	13,718	8,263	992		134	8,486	1,240	185	4,722	14,447	2,466	501	
GreenvilleSpartanburg-																		
-Anderson, SC MSA	40,094	45,046	17,507	40,258	32,152	91,270	47,427	5,411		839	27,281	7,239	859	34,481	81,449	15,760	3,623	
Hagerstown, MD PMSA	6,450	7,445	2,447	6,630	5,955	13,721	8,773	564	52	76	1,131	415	131	6,742	13,051	2,767	632	32
HamiltonMiddletown,	16 406	10 751	9.404	16 117	11 545	27.050	22,099	2 227	163	555	2 152	1 220	399	16,742	30,839	7,005	2.160	132
OH PMSA HarrisburgLebanon	16,406	18,751	8,494	16,117	11,545	27,859	22,099	2,227	103	333	3,152	1,230	377	10,742	30,639	7,003	2,169	132
Carlisle, PA MSA	31,998	35,855	12,945	32,057	27,797	56,770	42,499	4,032	310	736	6,277	4,643	696	32,136	61,723	14,398	3,337	182
Hartford, CT MSA	35,888	39,277	13,636	35,893	31,703	65,740	39,224	6,247	600	2,067	14,294	26,993	1,690	28,978	60,622	16,309	5,402	
Hattiesburg, MS MSA	5,720	5,991	3,104	5,098	3,888	10,396	7,010	811	52	94	4,712	499	108	4,582	12,264	1,690	372	28
HickoryMorganton																		
Lenoir, NC MSA	16,942	20,068	7,209	17,745	14,156	46,726	20,839	1,606		695	4,303	3,700	353	16,892	36,754	7,034	1,045	
Honolulu, HI MSA	42,464	52,273	20,656	43,034	35,870	67,337	56,426	7,886		47,072	3,452	17,487	24,018	10,631	83,603	19,240	5,418	
Houston, TV PMS A	4,833	5,680 230,499	2,526 101,946	4,997	3,114	15,536	5,611	351		99 21,964	2,846	536	807 7,649	4,129 110,232	10,691	1,698	376	
Houston, TX PMSA Huntsville, AL MSA	194,165 16,966	19,264	7,501	210,720 17,789	108,541 12,278	488,429 29,639	208,339 19,768	32,606 3,249		469	124,828 13,138	374,865 2,074	1,008	14,020	382,046 32,561	74,633 6,320	22,709 2,225	
Indianapolis, IN MSA	78,745	88,645	35,104	81,555	57,137	138,579	98,059	12,658		1,787	37,001	11,088	2,077		143,678	35,471	10,286	
Iowa City, IA MSA	5,556	6,676	4,167	4,933	2,717	4,786	6,940	1,375		377	375	964	136	5,842	10,986	2,518	592	
Jackson, MI MSA	7,695	9,377	3,312	8,275	6,342	14,274	11,197	871		76	1,796	1,058	272	8,008	15,498	3,476	911	43
Jackson, MS MSA	22,004	23,336	11,137	21,071	14,285	44,396	24,767	3,483		250	35,799	1,251	430	12,760	44,549	7,725	1,810	
Jackson, TN MSA	5,470	5,798	2,504	5,161	4,248	11,975	6,459	661		77	5,896	271	119	4,040	11,308	1,917	370	
Jacksonville, FL MSA	54,548	61,033	23,965	56,530	39,675	96,705	70,194	7,976		2,767	40,593	13,526	2,230		104,866	22,926	5,789	
Jacksonville, NC MSA	5,826	10,251	6,275	5,431	3,353	9,876	11,955	569		301	4,448	3,739	517	5,898	16,959	2,169	420	
Jamestown, NY MSA JanesvilleBeloit, WI	7,020	8,030	3,011	6,869	6,308	13,985	9,653	622	62	45	402	1,438	197	7,382	15,280	2,574	510	24
MSA	7,275	8,683	3,069	7,771	5,946	12,996	10,608	793	54	103	827	1,406	179	7,696	13,696	3,652	956	44
Jersey City, NJ PMSA	30,698	35,756	15,951	30,574	21,711	81,247	31,164	5,152		6,357	12,431	84,674	2,477	13,162	61,968	11,831	3,440	
Johnson City	,			V	, -	, .	,	,		,	,	,	,	,	,	,	, -	
KingsportBristol, TN																		
VA MSA	16,293	18,361	6,450	16,143	14,952	36,226	20,351	1,855		115	1,412	983	281	17,315	35,188	5,585	1,162	
Johnstown, PA MSA	11,817	14,191	4,727	11,447	12,584	24,556	17,444	938		59	928	580	115	13,070	28,037	3,765	616	
Joplin, MO MSA	7,693	8,765	3,501	7,398	6,684	15,716	10,563	733	52	116	226	1,154	646	7,969	17,286	2,545	435	29
KalamazooBattle Creek, MI MSA	22,280	25,514	10,646	22,149	17,114	37,163	30,611	2,874	217	557	5,857	4,585	1,187	21,633	44,163	9,373	2,388	136
Kankakee, IL PMSA	5,120	5,567	2,292	4,930	4,107	9,772	6,970	445		86	2,523	1,387	105	4,536	9,885	2,156	553	
Kansas City, MOKS	-,120	-,507	_,	.,,,,,	.,,	2,2	_,,,,	. 13		50	_,523	-,507	100	.,555	.,005	_,	555	20
MSA	82,288	93,584	36,240	85,538	61,492	130,120	103,260	14,778	1,007	2,842	34,028	25,689	3,799	74,468	149,051	38,793	10,750	701
Kenosha, WI PMSA	7,160	8,459	3,332	7,492	5,368	13,187	9,971	883	59	142	779	2,834	248	7,260	13,595	3,279	1,024	43
KilleenTemple, TX	14.105	10.050	0.445	12.500	0.111	24.020	21.71.	1.550	100	0.4.5	0.505	12.040	000	10.740	20.500	E 105	1.002	
MSA Knovville TN MSA	14,106	18,079 33,030	9,447 12,824	13,509 29,461	9,111 24,265	24,830 55,167	21,715 36,287	1,578 4,396		846 650	9,586 6,966	13,940 1,672	999 845	10,762 29,714	32,508 60,986	5,195 10,541	1,083 2,685	
Knoxville, TN MSA	29,687	22,030	12,024	25,401	24,203	55,107	30,207	4,390	, 333	0.50	0,900	1,072	043	47,/14	00,980	10,341	2,003	199

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Kokomo, IN MSA	4,951	5,673	2,050	5,106	4,115	8,808	7,097	504	_	A 58	758	380	124	5,167	9,255	1,914		
La Crosse, WIMN	4,731	3,073	2,030	5,100	4,115	0,000	7,077	304	50	50	750	300	124	3,107	7,233	1,714	173	
MSA	5,444	6,033	2,993	4,873	4,087	6,339	7,752	801		140	210	192	177	5,746	10,841	2,311		
Lafayette, LA MSA	12,055	13,544	6,147	12,039	7,945	28,291	13,972	1,702		264	9,122	1,224	161	10,291	25,717	3,751		
Lafayette, IN MSA	8,922	11,076 10,099	6,652	7,548	5,706	11,701	13,491	1,178 988		760 80	519	2,702 766	294 220	9,275	19,523	3,311		
Lake Charles, LA MSA LakelandWinter	8,902	10,099	4,302	8,588	7,091	19,129	11,639	900	00	80	7,348	700	220	7,498	18,829	2,926	000	45
Haven, FL MSA	24,078	27,646	9,190	22,439	26,318	57,704	30,463	2,399	177	614	11,070	12,620	898	20,984	51,717	8,754	1,855	119
Lancaster, PA MSA	22,689	26,048	10,138	22,445	19,209	51,282	27,933	2,931	188	680	1,750	6,673	456	23,266	44,393	10,197	2,333	141
LansingEast Lansing,							20 # 42		***	4 000			4040	** ***				
MI MSA	22,260	25,211	11,517	22,286	14,525	29,729	30,763	3,260		1,000 80	4,596	5,177	1,063	21,590	41,126	9,905		
Laredo, TX MSA Las Cruces, NM MSA	8,431 7,947	9,446 9,612	5,160 4,551	7,833 7,534	4,841 6,015	34,649 23,159	7,144 8,658	542 942		112	53 362	55,147 34,603	56 406	472 3,265	20,705 19,024	1,605 2,035		
Las Vegas, NVAZ	,,,,,	,,012	1,001	7,00	0,015	20,107	0,050	,.2	0,		302	3 1,003	.00	3,203	17,02.	2,035	555	
MSA	64,073	81,016	31,001	69,613	48,784	144,830	87,980	7,392	504	8,131	21,117	91,842	5,601	47,733	130,795	28,552	7,577	488
Lawrence, MANH				40.40#	0.040		40.000			044	4.00		40#	40.000				
PMSA Lexington, KY MSA	12,846 13,298	14,093 15,263	5,317 7,482	13,485 13,129	9,268 8,083	25,554 19,176	13,699 15,648	2,225 2,633		811 676	460 6,418	16,284 2,588	407 489	10,750 12,030	23,191 26,185	4,873 5,046		
Lima, OH MSA	7,479	8,954	3,354	7,653	6,383	12,857	11,588	626		61	1,950	637	241	7,728	15,536	3,166		
Lincoln, NE MSA	12,209	14,735	7,540	11,831	7,554	14,048	16,634	2,582		594	1,054	2,322	548	12,768	24,178	5,774		
Little RockNorth Little	,	,	.,	,	.,	,	,	_,			-,	-,		,	,	-,	-,	
Rock, AR MSA	29,101	32,899	13,979	28,888	21,625	52,539	37,337	4,240	295	499	20,855	3,262	978	25,021	59,232	11,447	2,668	177
LongviewMarshall, TX	0.515	0.606	4.070	0.110	6.070	10.212	11.004	012		117	6.046	2 202	275	c 700	10 106	2 000		
MSA Los AngelesLong	8,515	9,606	4,078	8,110	6,979	18,212	11,084	913	64	117	6,946	3,382	275	6,700	18,186	2,898	685	47
Beach, CA PMSA	448,043	528,391	234,715	460,402	295,744	1,256,088	451,622	69,960	5,188	131,281	152,0771	,298,219	33,942	175,571	927,420	146,918	48,897	4,433
Louisville, KYIN	-,	-,	,	.,	-,/	,	,	. ,	,	,	,	,	-,=	- ,	.,	.,0	-,	,
MSA	46,770	51,396	18,769	47,328	38,495	82,738	56,347	7,214		1,186	21,246	4,251	1,569	43,070	87,804	19,268		
Lowell, MANH PMSA	13,852	16,163	5,843	15,565	9,282	25,233	16,593	2,423		2,313	951	5,311	720	13,008	24,013	6,539		
Lubbock, TX MSA	11,933	13,685	7,030	10,999	8,074	23,440	14,929	1,741		339	2,939	20,045	284	8,999	25,781	4,047		
Lynchburg, VA MSA Macon, GA MSA	10,957 16,112	12,161 17,199	4,575 7,153	10,418 15,933	10,114 11,758	23,353 34,752	13,582 19,513	1,337 1,836		167 344	7,141 21,777	783 2,156	282 398	9,644 10,372	22,836 31,755	4,024 6,262		
Madison, WI MSA	21,106	25,650	11,067	22,517	13,486	23,289	26,575	4,831		1,414	2,086	4,517	749	21,898	37,361	11,300		
Manchester, NH PMSA	5,352	6,203	2,421	5,346	4,462	10,043	6,884	838		262	324	1,223	182	5,512	10,465	2,512		
Mansfield, OH MSA	6,158	7,741	2,644	6,501	5,682	13,378	9,174	518	32	61	2,034	274	224	6,433	13,545	2,536		
McAllenEdinburg																		
Mission, TX MSA	24,836	28,662	15,270	22,534	16,433	105,200	20,910	1,796	126	369	533	151,023	275	3,368	62,710	4,469	898	65
MedfordAshland, OR MSA	9,076	10,273	3,444	8,842	9,001	15,180	12,043	1,271	96	186	139	3,276	689	9,112	19,013	3,127	831	58
MelbourneTitusville	2,070	10,273	3,444	0,042	2,001	15,160	12,043	1,2/1	70	100	137	3,270	007	7,112	17,013	3,127	031	50
Palm Bay, FL MSA	24,336	28,551	8,091	23,612	28,248	37,247	32,964	3,753	296	919	6,586	7,134	1,136	23,474	48,641	9,744	2,743	190
Memphis, TNARMS																		
MSA	48,972	52,808	22,866	49,338	32,460	96,626	56,911	7,349		1,940	76,017	6,946	1,218	28,395	92,973	19,605		
Merced, CA MSA	9,021 112,490	11,124	5,071 48,773	9,098	6,305 95,536	31,273 316,023	10,265 112,400	675 13,333		1,268 3,299	1,085 74,333	28,258 460,103	944 4,833	4,566	21,075 243,928	2,711 32,270		
Miami, FL PMSA MiddlesexSomerset	112,490	124,049	46,773	108,677	93,330	310,023	112,400	13,333	1,390	3,299	14,333	400,103	4,033	24,725	243,926	32,270	0,230	133
Hunterdon, NJ PMSA	57,801	66,850	23,646	63,292	42,539	84,266	63,818	13,108	1,157	13,321	14,788	42,043	2,284	46,186	91,045	25,530	11,140	999
MilwaukeeWaukesha,																		
WI PMSA	73,689	83,227	32,509	74,577	57,937	126,768	90,264	13,077	838	2,474	34,105	28,193	2,789	64,853	133,199	34,371	9,571	638
MinneapolisSt. Paul, MNWI MSA	136,266	161,770	63,542	150,581	87,749	182,822	173,771	29,834	1,810	9,707	20,804	26,985	6,497	136,735	229,620	72,862	21,214	1,527
Mobile, AL MSA	26,971	29,062	11,896	25,846	21,844	58,193	32,932	3,093		672	25,484	2,377	1,098	20,636	55,820	9,111		
Modesto, CA MSA	20,664	24,200	10,432	21,119	14,422	57,002	25,150	1,934		1,849	1,482	39,623	2,538	14,502	43,662	7,449		
MonmouthOcean, NJ																		
PMSA	56,625	62,474	18,750	57,218	55,454	85,255	69,113	10,369		3,179	10,860	20,253	1,604	53,458	94,868	22,548		
Monroe, LA MSA	7,533	7,567	3,736	6,600	5,581	15,560	8,678	936		111	9,068	498	128	5,086	15,732	2,282		
Montgomery, AL MSA	16,441	18,695	7,781	16,291	12,684	34,605	19,317	2,371		247	22,027	1,193	466	11,360	34,004	5,953		
Muncie, IN MSA Myrtle Beach, SC MSA	6,155 10,025	6,899 11,620	3,357 4,111	5,358 9,794	5,087 9,664	10,965 18,957	8,383 13,531	626 1,254		58 108	1,281 5,503	437 1,558	143 278	6,271 9,234	13,001 21,292	2,184 3,722		
Naples, FL MSA	12,736	15,267	3,957	11,116	18,241	23,394	15,194	2,419		186	1,805	15,138	357	11,360	23,646	5,075		
Nashua, NH PMSA	5,618	6,546	2,337	6,308	3,828	8,465	6,862	1,147		336	185	1,472	167	5,797	9,266	2,859		
Nashville, TN MSA	61,268	70,147	29,211	64,116	41,024	117,784	73,360	10,645	666	1,833	31,875	12,006	2,369	55,247	116,384	26,977	6,919	525
NassauSuffolk, NY																		
PMSA	135,798	154,847	49,333	146,259	114,233	192,937	158,587	25,616	2,794	10,220	37,249	83,826	4,757	119,947	218,392	54,414	24,564	2,550
New Bedford, MA PMSA	8,977	9,895	3,660	8,555	8,329	24,785	9,884	950	70	164	789	2,732	1,424	8,443	18,226	3,420	850) 45
New HavenMeriden,	0,711	,,0,5	5,000	0,333	0,327	24,703	>,004	730	70	104	109	2,132	1,727	0,443	10,220	5,420	0.50	73
CT PMSA	18,205	19,856	7,968	17,812	14,538	30,644	20,894	2,763	341	1,036	7,781	12,874	818	14,668	31,835	8,018	2,601	174
New Orleans, LA MSA	62,472	67,781	28,143	61,856	46,268	137,883	72,024	8,340	631	2,785	81,594	19,427	2,138	38,794	128,426	21,278	5,500	383
New York, NY PMSA		510,761		467,364		1,105,518		77,841		96,302		751,283	39,260		898,597			
Newark, NJ PMSA	101,401	111,795	39,035	107,737	77,657	179,494	109,112	19,906	1,676	9,071	71,066	83,471	4,648	70,610	167,910	41,796	15,894	1,602
Newburgh, NYPA PMSA	15,853	19,081	6,894	17,814	11,084	29,680	20,907	2,121	203	532	3,692	10,460	547	14,890	29,173	6,922	2,540	161
NorfolkVirginia	15,055	17,001	0,094	17,014	11,064	29,080	20,907	2,121	203	332	3,092	10,400	347	14,090	47,1/3	0,922	2,340	101
BeachNewport News,																		
VANC MSA	74,939	87,694	38,583	76,421	50,950	123,542	100,734	11,057	846	5,013	85,143	15,323	3,802	53,087	148,877	32,288	7,995	515
Oakland, CA PMSA	117,320		51,031	127,408	81,100		126,911	25,448		44,787	50,835	134,749	12,409	67,030	194,067	49,978		
Ocala, FL MSA	13,503	15,183	4,095	11,356	18,833	28,121	18,430	1,133	97	210	5,322	4,861	480	12,307	30,097	4,240	786	64
OdessaMidland, TX	11.005	10.005	5 215	11.150	0.727	20.40=	12.001	1 44 *	ac.	110	2.255	24.510	200	7 770	22.000	2 525	0.50	
MSA	11,295	12,697	5,317	11,153	8,624	29,407	12,984	1,414	70	118	2,260	24,519	262	7,773	23,863	3,737	959	75
Oklahoma City OV																		
Oklahoma City, OK MSA	43.852	50.792	22,762	43.283	31.379	79.540	55.623	6.875	494	2,867	17.127	19.549	6.876	36,536	90,537	17.012	4,121	280
Oklahoma City, OK MSA Olympia, WA PMSA	43,852 10,235	50,792 12,248	22,762 4,875	43,283 10,806	31,379 7,493	79,540 15,116	55,623 13,433	6,875 1,788		2,867 947	17,127 744	19,549 2,871	6,876 1,234	36,536 9,963	90,537 19,112	17,012 4,856		

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Orange County, CA																		
PMSA	134,096	161,225	66,178	144,009	89,840	292,906	147,075	26,258	1,808	43,966	7,251	269,242	9,235	82,219	249,413	52,034	19,428	1,922
Orlando, FL MSA	80,649	95,094	35,604	83,836	65,256	146,487	102,256	13,799	855	4,585	35,956	86,898	4,481	62,726	162,847	32,577	8,153	
Panama City, FL MSA	7,369	8,425	2,927	7,544	6,462	13,667	10,029	814	70	303	2,810	840	395	6,942	15,465	2,771	623	
Pensacola, FL MSA	20,051	24,349	9,412	20,476	16,840	37,131	27,230	2,847	200	808	12,191	3,578	1,441	17,858	43,274	7,354	1,873	
PeoriaPekin, IL MSA	17,195	19,810	7,522	17,069	14,888	27,884	24,017	2,289	153	338	3,957	1,606	386	17,516	33,045	7,349	2,202	118
Philadelphia, PANJ	256.017	201 262	102 106	257.602	212 (20	447.260	200 422	12 007	2 570	17 151	155 027	74 241	0.244	210.014	451 720	100 644	25 700	2 (01
PMSA PhoenixMesa, AZ	256,017	281,363	105,186	257,603	212,030	447,368	298,432	45,807	3,570	17,151	155,837	74,241	8,344	210,914	451,720	109,644	35,789	2,691
MSA	144 059	175,435	73,090	146,519	111,461	291,315	178,121	24,200	1,694	7,147	17,747	229,654	10,644	115,651	281,841	62,228	17,258	1,441
Pittsburgh, PA MSA		130,417	43,268	114,078	119,390	185,683	155,311	17,474	1,327	2,514	28,718	5,702	2,362			43,059	11,804	
Portland, ME MSA	12,256		4,640	13,324	9,299	14,940	14,788	2,683	198	363	536	798	437	12,887	22,725	5,565	1,326	
PortlandVancouver,																		
ORWA PMSA	86,724	102,799	40,299	95,179	57,158	132,089	110,041	16,926	1,160	9,122	8,776	38,436	7,100	82,013	160,089	39,967	11,748	863
ProvidenceFall River																		
Warwick, RIMA MSA	52,773	57,057	21,852	51,154	44,900	120,285	59,366	7,075	545	2,387	6,007	25,682	3,397	48,795		21,229	5,703	
ProvoOrem, UT MSA	16,220	19,168	13,814	12,662	7,326	22,256	22,796	2,790	158	387	182	6,757	769	16,726	35,207	5,218	1,603	
Pueblo, CO MSA Punta Gorda, FL MSA	6,717 7,816	7,609 8,708	3,003 1,703	6,312 5,616	6,166 14,006	13,670 14,053	8,929 10,539	734 853	51 76	122 103	454 1,257	16,941 1,539	297 215	4,442 7,860	14,795 16,208	2,286 2,907	475 571	
Racine, WI PMSA	8,955	10,256	3,353	9,623	7,437	16,017	12,077	1,221	73	54	2,283	3,027	184	8,750	16,023	4,259	1,354	
RaleighDurham	0,755	10,230	3,333	7,023	7,437	10,017	12,077	1,221	13	54	2,203	3,027	104	0,750	10,023	4,237	1,334	00
Chapel Hill, NC MSA	58,657	68,000	29,845	63,053	33,437	95,281	63,012	13,887	1,031	3,298	47,810	21,558	2,092	45,950	106,598	25,631	7,921	678
Reading, PA MSA	18,485	21,076	7,485	18,669	16,312	37,996	24,287	2,134	146	349	1,499	7,544	389	18,624	36,012	8,071	2,039	
Redding, CA MSA	7,997	9,157	2,936	8,200	7,514	13,698	11,270	955	62	299	128	2,479	1,031	7,876	16,788	2,786		
Reno, NV MSA	16,079	20,185	7,521	17,853	11,826	29,339	21,723	2,651	169	1,512	1,140	16,966	2,054	14,054	31,095	7,622	2,072	
RichlandKennewick																		
Pasco, WA MSA	8,621	10,723	4,550	9,086	6,037	20,847	10,507	1,182	97	441	335	12,292	444	7,552	17,806	3,272	1,159	65
RichmondPetersburg,	50.222	55 202	20.042	52.000	25.010	00.050	£6 000	0.505		2 225	52 457	7 200	1.025	26 25 4	90.644	22.255	C 225	455
VA MSA Bivorcido Son	50,333	55,203	20,942	52,909	35,918	89,050	56,889	9,585	661	2,225	53,457	7,300	1,935	36,354	89,644	23,256	6,225	455
RiversideSan Bernardino, CA PMSA	145,753	176,440	74,176	148,852	109,507	369,386	185,616	15,032	1,115	13,974	38,207	349,812	11,904	88,024	305,600	52,707	16,786	1,068
Roanoke, VA MSA	12,400	13,213	4,574	12,221	11,039	22,753	15,304	1,731	119	195	5,627	904	380	11,340	24,442	4,869	1,036	
Rochester, MN MSA	5,906	6,919	2,541	6,475	4,206	8,019	7,604	1,161	84	365	293	569	212	6,217	10,208	3,268	755	
Rochester, NY MSA	50,911	57,616	21,342	52,750	40,195	83,742	63,666	7,977	722	1,890	16,054	12,759	1,973	48,007	96,437	22,210		
Rockford, IL MSA	15,263	17,976	6,479	16,048	12,512	29,980	20,695	1,889	123	335	4,210	6,518	397	14,674	28,839	7,158	1,983	
Rocky Mount, NC MSA	7,260	7,757	2,724	7,448	5,837	18,151	8,754	696	34	26	10,502	1,169	147	4,524	15,235	2,607	481	. 29
Sacramento, CA PMSA	78,987	90,104	34,453	82,027	60,292	132,857	100,001	13,340	883	15,968	20,251	67,721	8,618	59,438	143,894	33,713	11,640	732
SaginawBay City																		
Midland, MI MSA	19,787	22,735	8,398	20,343	16,235	35,179	28,269	2,132	137	334	5,427	4,648	615	19,376	39,912	7,496	2,254	
St. Cloud, MN MSA	8,078	10,128	4,480	8,148	6,028	14,411	12,122	968	56	202	132	514	157	9,144	17,252	3,746		
St. Joseph, MO MSA	4,996	5,953	2,405	4,921	4,244	8,824	7,294	566	35	45 2.746	472	635	141	5,365	10,815	1,968	385	
St. Louis, MOIL MSA Salem, OR PMSA	129,646 13,131	143,917 16,098	55,326 6,530	130,105 13,256	104,109 10,790	235,694 28,459	159,768 17,364	19,359 1,708	1,507 114	3,746 537	79,646 333	12,421 12,857	3,732 1,023	113,967 12,283	241,786 27,578	55,686 5,435	15,488 1,366	
Salinas, CA MSA	12,872	16,493	7,110	13,494	9,232	36,905	14,133	1,807	166	2,390	2,628	35,374	1,023	7,024	27,168	4,891	1,571	
Salt Lake CityOgden,	12,072	10,475	7,110	13,777	7,232	30,703	14,133	1,007	100	2,370	2,020	33,374	1,200	7,024	27,100	4,071	1,571	117
UT MSA	59,115	74,198	37,719	58,841	35,427	102,327	80,789	9,816	653	3,238	2,229	39,622	4,146	58,602	120,318	25,880	6,959	470
San Antonio, TX MSA	74,389	84,913	37,438	73,820	53,012	166,876	87,915	10,108	799	2,539	18,760	247,562	2,967	35,509	154,488	26,087	6,974	542
San Diego, CA MSA	132,485	164,330	70,776	136,302	96,670	241,252	164,640	24,387	1,927	27,899	26,091	225,462	12,874	90,534	263,559	52,935	17,068	1,439
San Francisco, CA																		
PMSA	89,029	107,898	37,099	97,671	71,309	140,574	84,823	25,641	2,079	45,936	16,403	97,279	8,276	55,195	142,625	38,811	15,566	
San Jose, CA PMSA	79,693	100,461	39,152	89,833	52,743	141,074	80,486	20,094	1,897	47,648	8,031	120,512	6,894	44,813	130,367	31,645	15,076	1,951
San Luis Obispo AtascaderoPaso																		
Robles, CA MSA	11,956	15,431	6,304	11,812	10,757	18,974	16,929	2,003	150	883	881	13,014	963	10,957	25,344	4,387	1,501	116
Santa BarbaraSanta	,	,	-,	,	,	,	,	_,				,		,		.,	-,	
MariaLompoc, CA																		
MSA	19,286	23,384	10,433	18,444	15,653	38,711	22,796	3,338	287	1,795	1,400	40,510	1,311	13,800	38,778	6,883	2,351	226
Santa Cruz																		
Watsonville, CA PMSA	12,630	15,331	6,513	13,652	7,930	23,238	14,373	2,637	206	1,118	367	22,381	1,025	9,817	23,885	4,741	1,703	
Santa Fe, NM MSA Santa Rosa, CA PMSA	7,407 22,556	8,504 26,725	2,865 9,294	8,144 24,601	5,635 17,626	12,217 38,073	7,605 27,856	1,469 4,250	187 303	160 1,552	209 1,030	21,777 23,126	922 2,022	4,253 19,930	13,585 39,669	3,017 10,271	896 3,484	
SarasotaBradenton, FL	22,330	20,723	7,274	24,001	17,020	36,073	27,630	4,230	303	1,332	1,030	23,120	2,022	17,730	37,007	10,271	3,404	200
MSA	31,985	34,653	8,212	26,305	46,850	47,139	40,841	4,932	411	616	5,757	11,044	730	30,744	59,987	12,858	3,051	343
Savannah, GA MSA	11,530	13,072	5,449	11,000	9,664	23,303	13,600	1,842	132	364	16,935	1,669	351	7,275	23,579	4,160		
ScrantonWilkes-Barre-	,	-,	-,	,	.,	- /	.,	,-			-,	,		.,	- ,	,	,	
-Hazleton, PA MSA	32,444	36,751	12,299	31,443	32,555	56,602	44,982	3,656	286	377	1,322	2,003	380	35,006	68,778	11,941	2,610	154
SeattleBellevue																		
Everett, WA PMSA	114,397		51,187	129,380	75,244	145,863		28,222		24,401	16,675	37,305	11,938			56,424		
Sharon, PA MSA	6,029	7,020	2,482	5,841	5,935	10,690	8,676	643	45	62	667	230	101	6,483	13,234	2,281	444	
Sheboygan, WI MSA	5,309	6,568	2,234	5,778	4,502	9,265	7,765	711	39	231	251	680	103	5,817	10,179	2,884	603	33
ShreveportBossier City, LA MSA	19,636	21,467	8,861	18,853	15,889	42 907	24 277	2,242	157	308	24,454	2,409	620	13,509	41,413	6,599	1,510	107
Sioux City, IANE	17,030	21,40/	0,001	10,033	13,009	42,807	24,277	2,242	137	308	24,434	2,409	629	13,309	+1,413	0,399	1,310	107
MSA	5,064	5,574	2,325	4,785	4,221	9,067	6,769	652	36	188	219	1,945	223	4,983	10,329	2,115	394	19
Sioux Falls, SD MSA	5,926	7,247	3,323	6,016	3,989	8,517	8,142	1,166	58	116	264	712	521	6,347	12,339	2,703		
South Bend, IN MSA	13,172	14,839	6,393	12,271	11,113	23,732	16,962	1,728	154	358	4,651	3,435	465	12,309	26,578	5,240	1,259	
Spokane, WA MSA	20,554	24,094	9,808	20,869	15,833	29,324	28,595	3,157	239	944	1,115	3,366	1,740	21,089	42,647	8,114		
Springfield, IL MSA	5,739	6,125	2,373	5,512	4,865	7,768	6,840	1,073	89	147	2,651	463	140	5,220		2,496		
Springfield, MO MSA	16,389	18,872	8,388	15,705	12,710	28,598	22,279	2,203	146	228	819	1,569	977	17,309	35,814	5,752		
Springfield, MA MSA	30,762	32,814	14,375	28,420	24,747	53,651	37,802	4,120	389	1,264	6,027	21,180	1,141	26,966	58,899	12,957	3,085	168
StamfordNorwalk, CT																		
		19,763	5,524	19,390	15,352	22,725	14,754	5,104	548	1,421	4,810	12,321	731	15,084	25,136	6,324	2,812	586
PMSA	17,615																	
PMSA State College, PA MSA StocktonLodi, CA	6,895 25,674	8,705 30,681	4,677 13,057	6,264 26,020	4,780 19,081	9,093 71,254	10,033 31,698	1,032 2,426	109	490 6,249	619 5,614	571 49,451	168 2,689	7,490 15,410	15,777	2,465 9,220	508	39

	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race		Race	Race	Race	Inc	Inc	Inc	Inc
PMSA/MSA	F	M	Y	M	o	No HS	HS	Coll	Prof	A	В	H	0	W	30K	30-50	50-75	75+
MSA Soundary SCIMSA	5.054	5 0 4 4	2.511	5.050	2.000	12 205	c 220	100	21	114	0.022	502	1.41	2 020	11.510	1.645	200	1.5
Sumter, SC MSA	5,054	5,844	2,511	5,059	3,699	13,295	6,228	486		114	9,022	583	141	2,829	11,518	1,645	309	15
Syracuse, NY MSA	35,925	41,371 40,145	15,521	36,845	29,219 21,989	62,014	47,317	4,807		879	6,185	3,969 11,494	1,618	36,632	72,024	14,999	3,756	
Tacoma, WA PMSA	33,185	.,	16,124	36,238	,	54,707	47,313	4,617		4,564	8,053	, .	4,604	29,484	63,642	15,457	4,503	239
Tallahassee, FL MSA	14,749	16,430	9,077	13,545	8,522	22,434	17,075	2,736	265	600	18,607	3,945	391	9,734	29,934	5,460	1,372	100
TampaSt. Petersburg Clearwater, FL MSA	124,534	137,304	43,103	116,594	135,627	224,377	158,006	17,538	1,252	5.111	40,345	79,176	4,870	107,528	247,414	47,730	11,347	959
Terre Haute, IN MSA	7,439	8,780	3,595	7,057	6,680	14,124	10.565	665		109	913	563	184	7.941	16,413	2,627	606	30
Toledo, OH MSA	30,727	34,257	14,820	29,565	23,768	51,885	41,716	3,796		661	11,940	7,483	1,142	28,375	60,341	12,333	3,393	187
Topeka, KS MSA	8,607	9,328	3,555	8,442	7,185	12,458	11,133	1,350		129	2,446	3,222	549	7,827	16,452	3,883	792	49
Trenton, NJ PMSA	17,705	19,751	7,218	18,382	13,894	31,942	18,358	3,314		1.918	11.193	11.174	708	13,213	29,601	7.626	2,794	
	42,313	47,665	19.424	40.065	36,782	74,933	51.946	6,328		1,918	3.871	75.562	5,010	30,525	87,424	14.879	3,753	315
Tucson, AZ MSA Tulsa, OK MSA	34,010	38,917	15,815	34,678	25,323	60,815	43,484	5,350		757	11,234	10.462	8,547	28,693	67,930	13,645	3,733	
Tuscaloosa, AL MSA	8,458	9,286	4,758	7,689	5,766	16,493	10.404	1.066		192	8,278	592	245	6,548	17,480	3,004	3,332 764	
	8,728	9,538	3,923	8,142	7,545	17,325	10,766	,		155	5,793	4,878	243	6,884	.,	3,104	814	60
Tyler, TX MSA UticaRome, NY MSA	14,777	17,773	5,923	15,171	14,141	31,369	19,907	1,169 1,566		247	1,916	2,326	375	15,686	17,640 32,240	6,007	1,101	58
VallejoFairfieldNapa,	14,///	17,773	3,910	13,171	14,141	31,309	19,907	1,300	143	247	1,910	2,320	3/3	13,080	32,240	0,007	1,101	36
CA PMSA	24,638	29,809	11,498	26,607	17,893	46,844	32,475	3,755	247	5,961	9,685	29,425	2,929	16,429	45,268	11,244	3,800	247
Ventura, CA PMSA	35,033	42,288	16,293	38,521	24,089	76,561	40,981	5,854		4,419	2,636	78,217	2,151	23,745	64,698	14,013	5,250	
VinelandMillville	33,033	42,200	10,273	30,321	24,007	70,501	40,701	5,054		7,712	2,030	70,217	2,131	23,743	04,070	14,013	5,250	407
Bridgeton, NJ PMSA	6,835	8,716	2,990	7,468	5,899	20,423	8,785	539	38	111	4,770	7,429	380	5,248	15,257	2,650	686	28
VisaliaTulare	-,	-,,	_,	.,	-,	,	-,				.,	.,		-,	,	_,		
Porterville, CA MSA	16,046	19,775	9,208	15,807	11,526	60,316	17,046	1,099	75	1,122	814	54,061	1,431	8,522	38,631	4,136	1,118	74
Waco, TX MSA	10,550	11,678	5,535	9,385	8,567	22,492	13,669	1,079	77	170	4,701	10,634	251	8,339	22,505	3,713	720	52
Washington, DCMD																		
VAWV PMSA	233,808	266,645	102,219	260,773	143,442	346,434	229,222	54,695	6,145	35,081	222,485	137,074	13,950	150,073	353,810	108,486	43,726	4,390
Waterbury, CT PMSA	5,326	5,852	2,449	4,882	4,705	13,279	6,518	484	34	172	2,734	6,525	294	3,779	10,611	2,234	517	20
WaterlooCedar Falls,																		
IA MSA	6,460	7,217	3,496	5,623	5,360	8,918	9,226	839	62	137	1,349	574	162	6,508	13,627	2,297	544	30
Wausau, WI MSA	5,940	7,412	2,561	6,637	4,674	11,194	8,801	684	39	273	57	253	104	6,682	12,120	3,002	565	31
West Palm BeachBoca																		
Raton, FL MSA	59,145	65,543	18,311	52,158	75,607	97,446	70,472	10,378		1,829	26,702	45,397	2,465	48,013		23,287	6,601	875
Wichita, KS MSA	25,906	30,023	11,964	26,328	20,212	43,089	34,274	4,156		1,380	6,694	10,323	1,705	24,043	49,741	11,867	3,063	166
Wichita Falls, TX MSA	6,231	8,024	3,813	5,809	5,140	12,575	8,951	796		294	2,205	5,057	405	5,596	14,756	2,180	407	28
Williamsport, PA MSA	6,069	7,135	2,319	6,313	5,622	11,409	8,870	564	39	39	306	179	89	6,691	13,333	2,268	464	21
WilmingtonNewark,																		
DEMD PMSA	25,184	27,638	10,933	25,450	19,010	37,520	30,291	4,547	378	1,349	15,883	7,732	752	20,701	42,000	11,800	3,895	278
Wilmington, NC MSA	12,111	13,730	4,916	11,677	11,606	19,553	15,608	2,103	118	133	6,893	1,959	388	10,902	24,464	4,506	1,154	99
Worcester, MACT	4.4.400	4 # #00			40.000		4 4 0 11 4		***			= ===					4.040	4.05
PMSA	14,439	15,799	6,240	13,864	12,280	24,721	16,871	2,441	208	1,160	1,762	7,533	623	13,212	26,581	6,157	1,862	107
Yakima, WA MSA	9,988	12,241	5,317	10,055	7,525	32,223	11,374	862		318	216	22,813	1,433	7,019	22,966	3,362	708	
Yolo, CA PMSA	8,463	9,512	5,259	7,672	5,105	15,127	9,340	1,463		1,815	559	13,131	924	5,785	16,831	2,975	961	72
York, PA MSA	18,867	21,915	7,486	20,195	15,407	36,547	25,567	2,251	155	296	1,912	3,260	375	19,834	36,319	9,091	2,137	99
YoungstownWarren,	20.064	24 200	11 070	20.495	20 521	57 200	42.202	2.055	100	200	10.145	2 200	717	20.470	62 117	11 122	2.720	125
OH MSA	29,964	34,208	11,879	29,485	28,531	57,299	42,292	2,955		288	10,145	3,309	717	29,479	63,117	11,123	2,729	135
Yuba City, CA MSA	6,412	7,538	3,104	6,374	5,143	17,316	8,046	568		1,134	543	7,780	837	4,904	14,091	2,113	562	33
Yuma, AZ MSA	7,333	8,945	3,740	6,513	7,466	24,269	8,602	460	42	112	509	25,082	502	4,023	17,579	2,038	466	27

Appendix G. Estimated Incidence of Lack of Computer Access per City.

Table 18. Estimated Incidence of Lack of Computer Access per City.

Table 10. Estili	arcu i	G	iice c	n Dac	K OI V	Comp	TI I	FI	5 pcr	City.	ъ	D.	ъ	ъ				
PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Abilene, TX MSA	15737	13544	3186	10663	14237	14207	22933	2178	469	368	1644	3868	523	19044	34434	4600	869	208
	87206	75730	13570	67186	84322	65246	129111	14561	3184	2132	16497	1183	2037		167110	32749	8753	1833
Akron, OH PMSA Albany, GA MSA	15121	12339	2673	10991	12537	17345	19460	1776	431	178	14087	360	178	11589	31097	4433	1184	207
AlbanySchenectady	13121	12339	2073	10551	12337	17343	17400	1770	431	170	14007	300	176	11309	31097	4433	1104	207
Troy, NY MSA	100138	87527	14779	78605	99319	71676	140568	16845	6035	3424	9690	3118	2701	143228	185325	40188	11841	1984
Albuquerque, NM MSA	87081	77732	14637	69444	74805	76105	117893	14564	4727	2561	3339	54311	14702	70360	177457	29312	7661	1879
Alexandria, LA MSA	15601	13684	2670	11422	15522	19358	21066	1585	410	166	9434	498	517	16376	35477	3918	870	201
AllentownBethlehem																		
Easton, PA MSA	81226	71487	11576	62361	88646	73291	117796	11502	2927	2240	3378	8065	1673	115659	159207	30290	7932	1518
Altoona, PA MSA	16854	14542	2500	12271	19020	14093	27567	1608	331	173	261	124	227	25924	37232	5002	964	146
Amarillo, TX MSA	26528	22785	4693	19281	24634	25582	36913	3717	913	1027	2458	6997	814	31565	55399	8233	2022	426
Anchorage, AK MSA	29597	28400	5865	26909	14237	20234	45477	5712	1457	2738	3510	2671	6942	35768	51142	12808	4849	1027
Ann Arbor, MI PMSA	58665	53946	11545	48483	37620	30510	77424	14383	5084	4803	8506	2147	2310	80755	99033	22420	9670	2481
Anniston, AL MSA	14276	12190	2340	10244	14742	16654	19732	1282	406	113	4959	388	447	17690	31152	4289	791	151
AppletonOshkosh																		
Neenah, WI MSA	42666	40794	7313	35568	37476	32395	70048	6873	1179	904	511	985	938	67839	80824	21007	4612	692
Asheville, NC MSA	29328	24981	4212	21471	32930	24776	39483	5116	1299	569	3256	1058	586	41452	60690	9383	1963	550
Athens, GA MSA	19797	17570	5009	12913	13829	15919	26937	3447	1154	824	6437	1188	376	24472	42847	5807	1370	351
Atlanta, GA MSA	481568	431613	86354	409299	306298	419729	607708	107594	24253	29682	265602	47931	15106	482473	857287	194014	60106	16008
AtlanticCape May, NJ PMSA	45260	38866	5889	35029	50113	43652	63072	6602	1409	2915	10905	6109	1484	53161	86212	16717	4710	924
AuburnOpelika, AL	43200	36600	3007	33029	30113	43032	03072	0002	1409	2913	10903	0109	1404	33101	00212	10/1/	4/10	724
MSA	14493	12935	4007	9063	9135	10597	21956	2032	743	507	6599	342	365	17016	31704	4272	985	224
AugustaAiken, GASC																		
MSA	55443	47548	9335	42511	47994	56405	75500	7612	1899	1439	33999	2097	1464	56193	113322	17345	4809	998
AustinSan Marcos, TX																		
MSA	138965	132344	30472	112908	84285	113154	174628	35887	8490	9713	20471	55872	4957		260757	55299	16511	4900
Bakersfield, CA MSA	72513	68224	14166	56972	59570	108921	94496	6845	1539	4605	6784	43077	4743		162394	19885	6252	1204
Baltimore, MD PMSA	317066	268580	45612	252463	291877	269416	399314	58438	18229	15380	155770	9288	9163	344676	541801	128979	41708	9187
BarnstableYarmouth,	10129	15899	1782	13643	28202	8971	26846	4148	1160	193	487	299	1043	27054	22242	7834	2135	517
MA MSA	19138								1169					27954	33343			
Baton Rouge, LA MSA BeaumontPort Arthur.	73939	64486	14363	56027	55488	67950	103869	11083	2782	1933	42982	1928	1587	78839	150841	23398	7077	1318
TX MSA	46157	42563	7846	35019	47535	50258	70387	4986	912	1552	21158	5484	1230	51035	99434	14616	4004	718
Bellingham, WA MSA	20877	18959	4252	15316	17574	13872	32691	3640	797	1175	207	1558	2735	28821	43294	7271	1792	374
Benton Harbor, MI MSA	20351	17747	3052	15504	21149	18012	30088	2552	758	375	4394	960	654	27044	40703	7119	1793	395
BergenPassaic, NJ																		
PMSA	173611	150548	23509	138763	176406	146873	209241	38870	10075	25425	24352	45170	6390	185488	288312	64524	24364	7954
Billings, MT MSA	15778	13985	2442	12775	14179	10058	23569	3401	514	124	107	760	1117	23355	32330	5590	1229	287
BiloxiGulfport																		
Pascagoula, MS MSA	38075	34904	6802	29664	34186	36493	58429	4531	1150	1613	16408	1357	1258	45301	82145	12721	2885	536
Binghamton, NY MSA	32172	27893	4737	24021	35098	26102	47834	4084	1419	1279	1329	807	791	47315	66600	10534	2494	531
Birmingham, AL MSA	103502	84474	16598	76625	93271	92886	132783	18064	4134	1655	62679	2371	1860	104896	196355	35566	9270	2360
Bloomington, IN MSA	16681	14012	4713	9733	9838	7599	23322	3269	1282	1118	932	385	570	23474	35332	4393	1266	293
BloomingtonNormal, IL	19324	16856	3845	14345	14764	10532	28238	4365	864	629	1544	596	428	27072	35259	7560	2388	456
MSA Boise City, ID MSA	49593	47399	9545	40438	39092		73912	8992	1795	1252	383	7193	2641	27973 71727	103192	17945	4798	1042
Boston, MANH PMSA	438583	373888	67303	342683	400012	43176 280423	510798	109050	36014	39294	52657	37697	20707	560415	717697	172087	62224	17886
BoulderLongmont, CO	430303	373666	07303	342003	400012	200423	310776	107030	30014	37274	32037	31071	20707	300413	/1/0//	1/200/	02224	17000
PMSA	26733	25617	5983	21081	17649	14097	31139	8577	2606	1468	393	4303	1126	37753	48541	9902	3471	1284
Brazoria, TX PMSA	26762	27364	4778	24189	20814	31166	40671	3631	740	976	4385	9697	965	31522	55650	9690	3576	613
Bremerton, WA PMSA	27023	26842	4612	23636	22947	17590	44425	5158	1102	2121	1480	1673	3295	38379	52091	11754	3543	649
Bridgeport, CT PMSA	42617	36325	6031	32875	43564	39730	51525	7716	2553	1596	10279	9641	1954	46569	72669	16104	5419	1664
Brockton, MA PMSA	31431	27822	4767	26281	26359	24846	47623	4915	1018	709	3783	1881	3577	41840	56978	13413	4092	565
BrownsvilleHarlingen																		
San Benito, TX MSA	38784	32451	7643	26205	34554	69932	38221	3241	861	320	290	50297	290	11198	91856	7273	1555	346
BryanCollege Station,																		
TX MSA	18779	18431	6836	9954	9865	14375	28520	3227	1086	1524	3778	5399	500	21706	44993	4505	1250	328
BuffaloNiagara Falls,	1.40.40.4	127752	20710	112827	161602	121042	211762	21562	6921	2004	20020	5002	4004	100275	202695	50751	1.4705	2501
NY MSA CantonMassillon, OH	148494	127752	20/18	112827	101082	121942	211/03	21562	6821	2884	28838	5803	4904	1992/5	293685	50751	14785	2591
MSA	51127	44803	7565	38700	55082	43860	80310	5877	1346	388	6025	615	1284	74536	104103	18444	4219	744
Cedar Rapids, IA MSA	23146	20881	3676	18385	22068	13386	36692	4614	762	460	707	351	468	35625	43460	10084	2476	440
ChampaignUrbana, IL			20,0					.0. 7	.02	.00		55.	.00	22020			2.75	
MSA	22761	21240	5664	15235	17833	12039	34899	4140	1599	2659	3634	938	682	30752	46730	8713	2023	414
CharlestonNorth																		
Charleston, SC MSA	55597	50123	10105	42538	49067	49912	75132	10285	2537	1257	33933	2001	1482		113960	18573	4749	1303
CharlotteGastoniaRock	183776	163490	30667	150154	147440	176853	241579	35905	6586	4868	71410	13155	4435	217894	348004	70903	18948	4831

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Hill, NCSC MSA																		
Charlottesville, VA MSA Chattanooga, TNGA	20792	17627	3918	15070	17266	15283	23943	4824	1605	1111	5352	637	425	26449	39399	7500	1829	572
MSA Chicago, IL PMSA	55555 984893	47400 878610	8524 166850	41822 787171	55456 830744	55697 913910	74467	8251 201526	1929 53247	1069 85297	15643 334167	1016 244028	1237 29595	986711	112078	18802 374460	4287 132588	1056 33947
ChicoParadise, CA MSA Cincinnati, OHKYIN	25159	23024	4778	17046	28122	22656	38186	3613	770	1240	616	4077	2435	33349	56082	6964	1928	381
PMSA ClarksvilleHopkinsville,	181653	158115	29234	141822	164409	161976	245105	31398	7834	3874	45001	2668	3932	243454	337626	70352	19223	4669
TNKY MSA ClevelandLorainElyria,	15330	14682	3437	11991	10346	12835	25037	2132	442	595	5958	1236	777	18444	33362	6002	1083	154
OH PMSA Colorado Springs, CO	283724	240848	39668	219115	290291	241084	393880	44692	11634	7179	91556	13096	6662	348408	529346	105840	30070	6401
MSA	59763	57093	11470	50173	42996	38304	91081	12013	3192	2849	7016	10240	3803		118259	23172	6627	1520
Columbia, MO MSA	17292	15129	4181	11739	11530	9864	23303	3781	1234	861	2340	433	588	23999	35910	5720	1294	305
Columbia, SC MSA	67820	59171	12398	52975	51541	54629	90309	13524	3267	2032	39384	2961	1695	70803	131895	25741	6241	1350
Columbus, GAAL MSA Columbus, OH MSA	22266 178041		4573 31631	15943 140439	19775 139135	22876	32146 245154	2770 36804	810 8209	732 8294	18809 43961	1493 5214	898 5963	18545 231643	48582 324242	6961 73027	1535 20593	363 4271
Corpus Christi, TX MSA	30418	28011	5506	24448	24907	34400	42564	3930	974	647	1687	23313	894	24476	64713	9421	2918	529
Dallas, TX PMSA	391692		75641	332385	251519	419831	479803	84284	17808	29828	109338	137416	13972	388811	732735	149763	46681	14049
Danbury, CT PMSA	22302	20200	2861	20336	18334	15644	25102	6366	1804	1242	1337	2404	927	30835	34081	8295	3668	1478
Danville, VA MSA	14491	11822	1814	10652	16735	19311	18750	1007	315	95	8337	183	158	15366	31322	4172	732	135
DavenportMolineRock Island, IAIL MSA	33407	28982	5421	24885	33241	26315	50339	4993	1087	792	3472	3036	941	45746	65749	12221	3197	559
DaytonSpringfield, OH MSA	120159	102926	19371	89265	118064	96853	176995	16746	4684	2412	30342	2175	3319	158288	227936	45089	12599	2343
Daytona Beach, FL MSA	58088	51503	7231	40067	84800	51065	89333	7041	1799	1303	9859	5859	1583	77063	125100	18062	3856	947
Decatur, AL MSA	17569	15940	2652	14351	16733	20715	25083	1995	376	58	4857	528	1114	23101	36565	5742	1778	271
Decatur, IL MSA	14469	12646	2206	10985	14969	11450	23137	1774	368	183	2679	184	207	20363	28335	5421	1417	245
Denver, CO PMSA	235669	221281	41538	201480	174905	193671	304788	57477	12761	13677	25047	71520	10548	278624	416490	104588	31065	7916
Des Moines, IA MSA	46549	40348	7915	36288	39011	30706	66154	10111	1824	1744	3943	2623	1273	65456	84196	20269	4973	992
Detroit, MI PMSA	543589	473199	82406	436067	492096	484954	762434	82345	22236	21819	226708	23684	21214	625170	966288	192471	77307	17221
Dothan, AL MSA	16766	15005	2761	12958	16103	18234	24631	1906	364	288	6862	532	600	20292	37008	4972	1162	202
Dover, DE MSA DuluthSuperior, MNWI MSA	15103 25325	13335 23177	2530 3925	11583 19443	14051 27575	15193 17472	22107 41673	1733 3688	468 805	415 273	5407 204	628 297	635 1319	18378 39312	30772 52601	5694 9454	1216 2315	197 286
Dutchess County, NY PMSA	32911	32117	4697	28959	32350	28870	46718	5952	1909	1328	6171	3041	978	45444	61443	12732	5051	1034
Eau Claire, WI MSA	18050		3277	13648	17554	15121	29332	2336	469	231	120	179	290	28780	39022	6599	1245	210
El Paso, TX MSA	78993	67524	15521	57065	63124	118796	91908	8028	1821	1526	4533	98188	1774	23333	183353	17071	3899	837
ElkhartGoshen, IN MSA	21386		3791	16525	19475	25816	30030	2248	588	463	1685	2721	450	29906	42466	8975	1758	371
Erie, PA MSA	34922	31053	5892	26114	34696	29648	54017	4425	1104	365	3274	1126	662	51374	74769	11596	2517	415
EugeneSpringfield, OR MSA	40769	37037	7089	31261	38623	28734	62599	6559	1861	1363	610	2269	2932	59663	85373	14394	3215	671
EvansvilleHenderson, INKY MSA	32155	27176	4929	23668	33112	25634	49520	3823	996	322	2836	316	446	47063	63293	11073	3004	548
FargoMoorhead, ND MN MSA	14569	14623	3338	11211	11469	8474	24093	3361	485	300	169	184	548	23730	31820	5429	1257	264
Fayetteville, NC MSA	33866		7938	26467	23832	27898	58023	4565	917	1565	23531	3633	2619	32010	76595	12110	2610	400
FayettevilleSpringdale Rogers, AR MSA	36521	34765	6778	28771	33139	37346	54322	5086	1198	825	649	3401	2190	54112	81676	11724	2449	608
FitchburgLeominster, MA PMSA	17431	15418	2578	14129	16358	16831	24792	2434	615	499	802	1853	581	24507	33243	7226	1897	248
Flagstaff, AZUT MSA	13827		2774	11117	9167	12182	18760	2541	700	208	250	2319	6561	14323	29397	4510	1195	213
Flint, MI PMSA	29215	24307	4968	21376	26232	29409	44741	2160	548	379	18975	1074	1534	27847	59589	8338	2888	408
Florence, AL MSA Fort CollinsLoveland,	18281	15675	2693	13571	19753	20223	25182	2005	554	88	4388	297	278	24726	38833	5444	1282	280
CO MSA Fort Lauderdale, FL	28561	27150	6224	22547	19410	14697	40711	7305	1933	732	289	3569	1207	41930	54547	11352	3350	866
PMSA Fort MyersCape Coral,		177410		159785				35085	8927	8986	74259	54314	11470	198399		75415	21159	5567
FL MSA Fort PiercePort St. Lucie,	56743		5987	38060	96148	48707	84130	8548	2236	717	6267	7715	1309		113883	20732	4576	1495
FL MSA Fort Smith, AROK MSA	41684 20550		4361 3304	27898 16103	68822 19921	38152 24158	60300 30064	5883 2006	1525 400	525 779	8489 1339	4579 1569	1103 1616	54137 28538	84440 46173	13436 6039	3272 1121	1186 282
Fort Walton Beach, FL MSA	20579	19758	3471	16428	20800	13774	32835	3489	1009	1086	3527	1566	1243	27979	42464	7530	2015	481
Fort Wayne, IN MSA Fort WorthArlington, TX	55223		9158	43324	50144	45677	85978	7065	1793	1004	7095	2537	1160		106871	22436	5502	928
PMSA		178859	35608			197999	265604	35523	7125	10805	40780	53507	7560	220679		75666	22169	5227
Fresno, CA MSA	105160		20829	79374		157933	128022 18524	11455 1095	2522 311	12997 81	10031 2998	70968	7373 262	76897 17694	237224 28448	27228 3802	7683 869	1547
Gadsden, AL MSA Gainesville, FL MSA	13174 29073	11129 25056	1865 7074	9602 18739	14881 21145	15342 16744	40489	5417	2076	1766	9999	259 2477	1200	33162	62070	7990	2054	138 573
GalvestonTexas City, TX PMSA	29883	27208	4640	24651	27099	28357	41980	4718	1232	1135	8369	7747	973	32612	55738	11125	3914	835
Gary, IN PMSA	78268		12635	59796	73266		118305	9002	2294	1370	29729	12390	1895		150803	26193	9907	1360
Glens Falls, NY MSA	14986		2011	12353	16800	13834	22921	1937	585	115	555	332	328	23508	32106	5551	1103	220

72.50.12.50.1	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race	Race	Race	Race	Race	Inc	Inc	Inc	Inc
PMSA/MSA	F 13865	M 12483	Y 2285	M 10888	O 12966	No HS	HS 20206	Coll 1631	Prof 319	A 257	B 9145	H 864	O 323	W 12055	30K 31063	30-50 4109	50-75 840	75+
Goldsboro, NC MSA Grand Junction, CO MSA	14052	12483	2294	10888	15182	15193 11379	20206	2081	501	96	103	2106	552	13855 19777	29975	4338	1064	161 222
Grand RapidsMuskegon-	14032	12420	2274	10217	13102	11377	21140	2001	501	70	103	2100	332	17///	27713	4550	1004	222
-Holland, MI MSA	116529	105298	21283	91575	95565	99889	171577	19052	4034	3160	16555	10389	3731	159215	225241	45447	12949	2271
Greeley, CO PMSA	20774	19747	4166	16732	15593	21888	30850	2899	584	293	177	7901	703	25769	43013	7972	1984	351
Green Bay, WI MSA	26833	25341	4648	22495	22123	20862	42754	4756	665	892	512	1361	1425	40566	50864	12292	3001	523
GreensboroWinston- SalemHigh Point, NC																		
MSA	157624	137285	24582	123182	147840	155583	213954	25806	4957	3142	57645	10930	3639	188506	312274	58056	13204	3096
Greenville, NC MSA	17633	14224	3581	11938	13669	16461	23017	2692	648	287	11314	732	370	16864	36118	5460	1127	257
GreenvilleSpartanburg Anderson, SC MSA	100234	87088	15915	77160	95057	109524	132117	14688	3223	1797	36374	4277	1717	123145	203623	34896	8150	1685
Hagerstown, MD PMSA	16125	14393	2224	12707	17605	16465	24439	1531	469	162	1507	244	261	24079	32627	6127	1422	224
HamiltonMiddletown,		- 10.00																
OH PMSA	41015	36251	7721	30891	34132	33431	61561	6044	1470	1189	4202	727	797	59792	77097	15510	4880	927
HarrisburgLebanon Carlisle, PA MSA	79994	69319	11768	61443	82181	68123	118389	10944	2787	1576	8369	2743	1391	114770	154307	31881	7508	1275
Hartford, CT MSA	89720	75935	12396	68794	93730	78887	109266	16957	5401	4429	19058	15950	3380	103493	151554	36113	12155	2807
Hattiesburg, MS MSA	14299	11582	2821	9771	11496	12474	19527	2201	464	201	6283	294	215	16362	30659	3742	836	192
HickoryMorganton																		
Lenoir, NC MSA	42354	38797	6553	34011	41853	56071	58051	4360	874	1489	5736	2186	706	60327	91885	15574	2351	523
Honolulu, HI MSA	106159		18777	82481	106049	80804	157187	21404	4677	100868	4602	10333	48036	37969	209006	42602	12190	2291
Houma, LA MSA Houston, TX PMSA	12083 485412	10981 445630	2296 92678	9577 403880	9206 320903	18643 586114	15632 580374	953 88503	177 20150	211 47065	3794 166436	316 221511	1614 15297	14744 393685	26726 955115	3759 165258	845 51094	134 15068
Huntsville, AL MSA	42414	37244	6818	34095	36299	35566	55069	8818	2062	1005	17517	1225	2016	50070	81401	13993	5005	1117
Indianapolis, IN MSA	196861		31912	156314	168925	166294	273165	34357	7988	3828	49334	6552	4154	260297	359194	78543	23143	4691
Iowa City, IA MSA	13889	12907	3788	9455	8033	5743	19333	3733	1081	808	499	569	272	20863	27465	5575	1333	306
Jackson, MI MSA	19237	18129	3011	15859	18749	17128	31190	2365	510	163	2394	624	544	28599	38744	7697	2048	303
Jackson, MS MSA	55009	45116	10124	40385	42233	53275	68992	9452	2114	535	47732	739	859	45570	111371	17105	4071	955
Jackson, TN MSA	13676	11209	2276	9892	12558	14369	17993	1794	423	165	7860	160	237	14428	28270	4244	832	217
Jacksonville, FL MSA	136370		21786	108349	117300	116046		21648	4744	5928	54123	7992	4460	156736		50764	13024	2992
Jacksonville, NC MSA Jamestown, NY MSA	14564 17548	19818 15525	5704 2736	10410 13164	9914 18648	11850 16781	33303 26889	1545 1688	324 560	644 96	5931 536	2209 849	1034 393	21064 26363	42396 38199	4802 5699	945 1146	134 167
JanesvilleBeloit, WI	17346	13323	2/30	13104	10040	10/61	20009	1000	300	90	330	049	373	20303	36177	3099	1140	107
MSA	18187	16787	2789	14894	17580	15594	29549	2152	488	220	1103	830	358	27485	34240	8085	2151	307
Jersey City, NJ PMSA	76744	69128	14501	58600	64189	97496	86814	13984	3194	13621	16574	50034	4953	47008	154919	26196	7740	1569
Johnson CityKingsport Bristol, TNVA MSA	40731	35497	5863	30941	44205	43470	56692	5035	1246	246	1882	581	562	61839	87969	12367	2615	578
Johnstown, PA MSA	29541	27435	4297	21939	37205	29467	48593	2546	536	125	1236	342	230	46677	70093	8337	1386	190
Joplin, MO MSA	19233	16945	3182	14179	19762	18858	29425	1989	467	249	300	681	1291	28461	43213	5634	979	202
KalamazooBattle Creek,																		
MI MSA	55700	49326	9678	42451	50597	44595	85272	7800	1955	1193	7808	2709	2373	77261	110407	20754	5373	952
Kankakee, IL PMSA	12799	10762	2083	9448	12142	11726	19417	1207	368	184	3364	819	209	16199	24712	4774	1245	177
Kansas City, MOKS MSA	205719	180929	32945	163947	181802	156144	287651	40111	9063	6090	45370	15179	7597	265958	372627	85898	24188	4906
Kenosha, WI PMSA	17900	16354	3028	14360	15871	15824	27775	2396	526	303	1039	1674	495	25928	33988	7260	2304	301
KilleenTemple, TX MSA	35263	34952	8588	25891	26937	29796	60490	4282	968	1812	12781	8237	1997	38437	81271	11503	2437	477
Knoxville, TN MSA	74217	63858	11658	56467	71739	66200	101084	11931	3174	1393	9287	987	1690	106122	152465	23341	6041	1394
Kokomo, IN MSA	12376		1863	9786	12165	10569	19769	1367	321	123	1010	224	247	18454	23137	4238	1783	285
La Crosse, WIMN MSA	13609	11664	2720	9339	12084	7607	21594	2174	548	300	279	113	354	20522	27103	5118	1004	228
Lafayette, LA MSA Lafayette, IN MSA	30138 22304	26185 21413	5588 6047	23075 14467	23490 16871	33949 14041	38923 37582	4619 3198	904 1043	565 1628	12162 692	723 1596	322 587	36752 33124	64291 48808	8305 7330	2444 2030	525 335
Lake Charles, LA MSA	22254	19524	3910	16461	20964	22954	32422	2680	540	171	9797	452	439	26777	47073	6479	1997	343
LakelandWinter Haven,																		
FL MSA	60195		8354	43007	77809	69244	84862	6511	1591	1315	14760	7457	1796		129292	19384	4174	834
Lancaster, PA MSA	56722	50358	9216	43019	56792	61538	77812	7956	1688	1458	2333	3943	911	83092	110983	22580	5249	986
LansingEast Lansing, MI MSA	55650	48740	10470	42715	42942	35675	85695	8847	2503	2143	6127	3059	2126	77106	102815	21932	7181	1011
Laredo, TX MSA	21078		4691	15012	14313		19900	1471	464	170	70	32587	111	1684	51763	3554	842	143
Las Cruces, NM MSA	19867	18583	4137	14440	17782		24119	2555	782	240	482	20447	812	11662	47560	4506	1204	237
Las Vegas, NVAZ MSA	160182	156630	28182	133425	144232	173795	245086	20065	4532	17424	28155	54270	11201	170476	326987	63222	17048	3412
Lawrence, MANH	22115	27246	4022	25046	27.400	20664	20171	6020	1022	1720	612	0.622	014	20201	57070	10700	2692	1102
PMSA Lexington, KY MSA	32115 33245		4833 6802	25846 25163	27400 23896		38161 43589	6039 7145	1823 2235	1738 1448	613 8557	9622 1529	814 978	38391 42963	57978 65462	10789 11172	3683 3333	1182 877
Lima, OH MSA	18697		3049	14667	18872		32281	1699	412	130	2599	376	481	42963 27601	38840	7009	1719	247
Lincoln, NE MSA	30522		6854	22675	22333	16857	46336	7007	1456	1273	1405	1372	1096	45601	60443	12786	2796	621
Little RockNorth Little																		
Rock, AR MSA	72753	63604	12708	55367	63935	63047	104009	11508	2654	1068	27807	1927	1956	89360	148080	25346	6002	1236
LongviewMarshall, TX MSA	21287	18572	3707	15543	20633	21854	30877	2476	572	250	9260	1998	549	23926	45466	6418	1541	328
Los AngelesLong Beach,		10372	3101	10040	20033	21034	50011	2470	312	230	7200	1770	347	43740	+5400	0410	1.341	320
CA PMSA		1021556	213377	882436	874374	1507306	1258090	189890	46694	281315	202769	767129	67883	627038	2318550	325318	110018	31033
Louisville, KYIN MSA	116926		17062		113811	99285	156966	19582	5524	2540	28327	2511	3138	153820		42664	11845	2881
Lowell, MANH PMSA	34630		5312	29833	27442		46222	6577	1762	4956	1267	3138	1439	46458	60033	14479	4889	1113
Lubbock, TX MSA	29833		6391	21082	23870		41588	4726	1105	727	3918	11844	568	32139	64453	8962	2086	486
Lynchburg, VA MSA Macon, GA MSA	27392 40279		4158 6502	19967 30537	29902 34762		37834 54357	3628 4983	861 1243	358 738	9521 29035	462 1274	564 796	34442 37043	57090 79387	8910 13865	1951 3525	414 573
macon, GA IVISA	70219	15251	0302	30331	J=102	71/02	J -1 33/	7703	1243	130	27033	12/4	170	31043	17301	15005	3343	313

	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race	Race	Race	Race	Race	Inc	Inc	Inc	Inc
PMSA/MSA	F	M	Y	M	О	No HS	HS	Coll	Prof	A	В	H	О	W	30K	30-50	50-75	75+
Madison, WI MSA	52764	49589	10060	43156	39873	27947	74029	13112	3732	3029	2781	2668	1498	78207	93402	25020	6799	1458
Manchester, NH PMSA	13380	11993	2201	10246	13191	12051	19176	2274	425	561	431	722	363	19687	26163	5561	1238	209
Mansfield, OH MSA	15394	14965	2404	12460	16798	16053	25557	1405	290	130	2712	161	447	22973	33863	5615	1163	216
McAllenEdinburg Mission, TX MSA	62088	55414	13881	43190	48584	126240	58248	4876	1136	790	711	89241	549	12030	156775	9895	2021	455
MedfordAshland, OR	02000	33414	13001	43170	40304	120240	30240	4070	1130	7,70	/11	07241	347	12030	130773	7675	2021	433
MSA	22690	19861	3130	16946	26612	18216	33547	3448	863	399	185	1935	1377	32543	47533	6924	1869	404
MelbourneTitusville																		
Palm Bay, FL MSA	60840	55197	7355	45256	83516	44695	91828	10186	2662	1968	8781	4215	2271	83837	121603	21576	6171	1331
Memphis, TNARMS MSA	122430	102094	20787	94564	95968	115951	158537	19946	4986	4157	101356	4104	2435	101412	232431	43410	11387	2823
Merced, CA MSA	22551	21506	4610	17437	18642	37527	28595	1832	343	2718	1446	16697	1888	16308	52687	6004	1550	298
Miami, FL PMSA	281224		44339	208297	282454		313114	36189	12513	7068	99110	271878	9665		609819	71455	18580	5286
MiddlesexSomerset	201224	237021	44337	2002)1	202434	317221	313114	30107	12313	7000	<i>>></i> 110	271070	7005	00505	007017	71433	10500	3200
Hunterdon, NJ PMSA	144503	129244	21496	121310	125766	101119	177777	35578	10414	28544	19717	24843	4568	164951	227613	56530	25065	6995
MilwaukeeWaukesha,																		
WI PMSA	184221	160905	29553	142940	171291	152121	251449	35494	7544	5300	45472	16659	5577	231619	332996	76106	21535	4464
MinneapolisSt. Paul, MNWI MSA	340663	312756	57765	288613	259432	219386	484075	80976	16286	20800	27739	15945	12994	488337	574049	161336	47730	10691
Mobile, AL MSA	67427	56186	10814	49537	64583	69832	91739	8394	2043	1440	33978	1404	2196		139550	20175	5015	10051
Modesto, CA MSA	51659	46786	9483	40478	42637	68402	70061	5249	1102	3962	1976	23413	5076		109155	16494	4526	882
MonmouthOcean, NJ	51057	10700	,.05	.0.70	.2037	00.102	70001	32.7	1102	3702	1,70	25.15	2070	51775	10,100	10.7.	.520	002
PMSA	141563	120782	17045	109667	163951	102306	192528	28143	6846	6811	14480	11967	3207	190922	237168	49927	20816	5923
Monroe, LA MSA	18831	14630	3396	12649	16499	18671	24173	2540	607	237	12090	294	256	18165	39329	5051	1014	272
Montgomery, AL MSA	41102	36144	7074	31224	37499	41526	53812	6436	1851	528	29369	704	931	40571	85009	13180	3382	799
Muncie, IN MSA	15386	13337	3051	10269	15039	13158	23351	1698	588	124	1708	258	285	22396	32502	4835	1199	195
Myrtle Beach, SC MSA	25062		3737	18772	28571	22748	37692	3403	768	232	7337	920	555	32977	53230	8242	1810	425
Naples, FL MSA	31838		3596	21305	53929	28072	42326	6565	1623	398	2406	8945	713	40569	59114	11236	3227	1565
Nashua, NH PMSA	14044	12655	2124	12089	11318	10158	19116	3113	730	720	247	869	334	20705	23164	6329	2023	512
Nashville, TN MSA	153171	135618	26555	122889	121287	141340	204359	28892	5992	3927	42499	7094	4737	197309	290958	59734	15568	3672
NassauSuffolk, NY PMSA	339496	299370	44847	280328	337732	231524	441779	69529	25144	21900	49665	49533	9513	428383	545981	120487	55269	17846
New Bedford, MA PMSA			3327	16396	24624	29742	27533	2578	633	351	1051	1614	2848	30152	45564	7573	1913	312
New HavenMeriden, CT		1,150	3327	10570	2.02.	277.12	2,000	2570	055	551	1001	1011	20.0	50152		,,,,	1,15	312
PMSA	45511	38388	7243	34139	42982	36773	58203	7499	3067	2218	10375	7607	1636	52386	79588	17755	5851	1220
New Orleans, LA MSA	156181	131043	25584	118556	136792	165459	200639	22636	5680	5968	108791	11479	4275	138551	321065	47116	12375	2678
New York, NY PMSA	1199234	987472	195720	895780	1054422	1326622	1282380	211282	71218	206361	481333	443940	78519	810323	2246492	365141	127232	36792
Newark, NJ PMSA	253501	216137	35486	206495	229595	215393	303953	54031	15081	19437	94754	49323	9296	252178	419776	92548	35762	11217
Newburgh, NYPA	20.521	26000	co.ca	24142	227.50	25616	50220	5756	1020	1140	4022	6100	1002	50177	72021	15005	5714	1100
PMSA	39631	36889	6267	34143	32769	35616	58239	5756	1829	1140	4922	6180	1093	53177	72931	15327	5714	1123
NorfolkVirginia Beach Newport News, VANC																		
MSA	187346	169542	35075	146474	150634	148250	280615	30011	7609	10741	113523	9054	7603	189595	372192	71495	17989	3601
Oakland, CA PMSA	293300	261174	46392	244199	239774	236267	353537	69073	19299	95972	67780	79624	24817	239392	485166	110665	44741	13619
Ocala, FL MSA	33757	29352	3722	21765	55680	33745	51339	3076	870	450	7096	2872	960	43953	75243	9387	1768	449
OdessaMidland, TX	20220	24545	4022	21276	25.405	25200	26171	2027	621	252	2012	1.4400	50.4	277 (0	50.550	0275	2157	506
MSA	28238		4833	21376	25497 92773	35288	36171 154949	3837	631	252	3013	14488	524	27760 130485	59658	8275	2157 9271	526 1963
Oklahoma City, OK MSA Olympia, WA PMSA	109631 25587	98197 23678	20692 4431	82958 20711	22153	95448 18138	37419	18660 4852	4450 1370	6143 2028	22835 992	11551 1696	13751 2467	35582	226341 47779	37669 10753	3461	479
Omaha, NEIA MSA	70461	62637	12615	55659	56242	50565	99038	15041	3013	2261	12564	6711	2434		133395	28076	7291	1634
Orange County, CA	70401	02037	12013	33037	30242	30303	77030	15041	3013	2201	12504	0/11	2434	72333	133373	20070	7271	1054
PMSA	335238	311702	60161	276017	265612	351487	409708	71272	16274	94213	9668	159097	18469	293640	623532	115218	43712	13450
Orlando, FL MSA	201622	183847	32367	160686	192931	175785	284856	37453	7697	9825	47941	51348	8961	224023	407118	72135	18344	4670
Panama City, FL MSA	18422	16288	2661	14460	19103	16400	27938	2209	627	648	3746	496	789	24791	38663	6136	1402	285
Pensacola, FL MSA	50127	47074	8556	39246	49789	44557	75853	7728	1798	1730	16254	2114	2882	63778	108184	16283	4213	915
PeoriaPekin, IL MSA	42987	38298	6838	32716	44016	33460	66904	6212	1380	724	5275	949	771	62557	82611	16273	4954	822
Philadelphia, PANJ PMSA	640042	543968	93805	493739	628646	526941	831345	118904	32132	36751	207782	43869	16688	753263	1120200	242782	80526	18839
		339174				349578		65685	15247	15314	23662	135704		413040		137791	38829	10084
PhoenixMesa, AZ MSA Pittsburgh, PA MSA		252139		218649			432651	47428	11945	5387	38291	3369		424190		95345	26558	5478
Portland, ME MSA	30639		4218	25537	27493		41195	7282	1783	776	714	471	874	46024	56812	12323	2983	774
PortlandVancouver, OR-		20337	4210	23331	21473	11721	41173	7202	1703	770	/14	4/1	074	40024	30012	12323	2703	//-
-WA PMSA		198744	36635	182426	168988	158507	306542	45942	10443	19547	11701	22711	14199	292902	400221	88499	26433	6041
ProvidenceFall River																		
Warwick, RIMA MSA		110310	19865		132749		165377	19202	4903	5114	8009	15175		174267		47007	12831	2106
ProvoOrem, UT MSA	40549		12558	24269	21659	26707	63502	7572	1418	829	242	3992	1537	59736	88016	11553	3606	703
Pueblo, CO MSA	16793		2729	12097	18230	16404	24874	1991	459	261	605	10010	593	15865	36986	5061	1067	157
Punta Gorda, FL MSA	19539		1548	10764	41409	16863	29357	2316	684	220	1675	909	429	28070	40520	6436	1285	366
Racine, WI PMSA	22388	19829	3047	18443	21986	19220	33642	3313	654	116	3043	1788	367	31249	40056	9430	3047	464
RaleighDurhamChapel Hill, NC MSA	146641	131466	27131	120851	98858	114337	175532	37693	9279	7066	63747	12738	4183	164108	266495	56754	17822	4748
Reading, PA MSA	46211	40746	6804	35782	48226	45594	67657	5791	1313	748	1999	4458	778	66514	90030	17870	4588	793
Redding, CA MSA	19993		2668	15716	22214	16437	31394	2592	553	640	170	1464	2062	28127	41969	6169	1739	340
Reno, NV MSA	40198		6837	34217	34964	35207	60513	7194	1517	3240	1519	10025	4107	50191	77738	16877	4661	1082
RichlandKennewick																		
Pasco, WA MSA	21551	20730	4136	17414	17847	25016	29269	3208	872	944	446	7263	888	26971	44514	7244	2607	458
RichmondPetersburg,	125832	106724	19038	101409	106191	106860	158477	26015	5947	4767	71275	4313	3869	129835	224110	51495	14007	3185

	Sex	Sex	Age	Age	Age	Ed	Ed	Ed	Ed	Race	Race	Race	Race	Race	Inc	Inc	Inc	Inc
PMSA/MSA VA MSA	F	M	Ÿ	M	ő	No HS	HS	Coll	Prof	A	В	H	O	W	30K	30-50	50-75	75+
RiversideSan																		
Bernardino, CA PMSA	364383	341117	67432	285299	323761	443263	517072	40800	10038	29944	50942	206706	23808	314370	764000	116707	37768	7475
Roanoke, VA MSA	31000	25544	4158	23423	32636	27303	42631	4699	1068	417	7503	534	759	40499	61105	10780	2330	553
Rochester, MN MSA	14764	13377	2310	12409	12436	9623	21182	3151	756	782	390	336	423	22202	25519	7235	1697	410
Rochester, NY MSA	127276		19401	101104	118838		177354	21651	6495	4049	21405	7539	3945			49180	14006	2529
Rockford, IL MSA	38157	34753	5889	30758	36990	35976	57649	5126	1104	718	5613	3851	793	52408	72096	15849	4462	762
Rocky Mount, NC MSA	18149	14996	2476	14275	17256	21781	24385	1890	308	55	14002	690	293	16158	38087	5772	1082	205
Sacramento, CA PMSA	197467		31321	157219	178256		278573	36207	7950	34216	27001	40016	17235	212279	359735	74650	26190	5123
SaginawBay City																		
Midland, MI MSA	49467	43953	7634	38990	47998	42214	78748	5785	1235	715	7236	2746	1229	69199	99778	16597	5072	910
St. Cloud, MN MSA	20193	19580	4072	15616	17823	17292	33767	2627	503	432	175	303	314	32655	43129	8295	1502	271
St. Joseph, MO MSA	12490	11509	2185	9432	12546	10588	20319	1535	314	96	628	375	282	19162	27037	4358	866	165
St. Louis, MOIL MSA	324114	278238	50296	249368	307801	282833	445067	52545	13561	8027	106194	7339	7464	407024	604465	123304	34848	7364
Salem, OR PMSA	32826	31123	5936	25406	31901	34150	48372	4636	1025	1150	444	7597	2046	43869	68946	12033	3073	534
Salinas, CA MSA	32179	31886	6463	25863	27294	44285	39371	4905	1497	5120	3504	20902	2536	25087	67919	10830	3535	819
Salt Lake CityOgden, UT																		
MSA	147786		34290	112778	104740		225053	26644	5879	6939	2971	23413	8292	209291	300795	57305	15657	3289
San Antonio, TX MSA		164164	34034	141487	156730		244905	27436	7189	5441	25013	146286	5934		386219	57764	15692	3794
San Diego, CA MSA		317704	64342	261246	285807	289501	458641	66193	17341	59782	34787	133227	25748	323337	658897	117214	38403	10072
San Francisco, CA PMSA	222571	208602	33725		210826		236294	69596	18710	98434	21870	57483	16551	197124	356562	85939	35024	13794
San Jose, CA PMSA	199233	194224	35592	172180	155934	169289	224211	54541	17076	102103	10707	71211	13788	160048	325918	70070	33921	13657
San Luis Obispo AtascaderoPaso Robles,																		
CA MSA	29889	29833	5730	22639	31802	22768	47160	5436	1352	1893	1174	7689	1925	39132	63359	9714	3376	812
Santa BarbaraSanta																		
MariaLompoc, CA MSA	48213	45208	9484	35351	46278	46453	63503	9061	2579	3847	1866	23937	2621	49285	96944	15240	5288	1584
Santa CruzWatsonville,																		
CA PMSA	31573	29640	5920	26166	23446	27885	40038	7158	1857	2395	489	13224	2049	35060	59712	10497	3832	1372
Santa Fe, NM MSA	18516	16440	2604	15609	16660	14660	21185	3988	1679	342	278	12868	1844	15190	33961	6680	2015	713
Santa Rosa, CA PMSA	56388	51668	8449	47151	52111	45687	77599	11534	2727	3326	1372	13665	4043	71179	99172	22742	7838	2018
SarasotaBradenton, FL MSA	79961	66994	7465	50418	138512	56566	113771	13386	3698	1321	7676	6526	1459	109799	149968	28471	6865	2401
Savannah, GA MSA	28824	25272	4954	21083	28572	27963	37884	4999	1185	780	22579	986	701	25983	58948	9210	2374	653
ScrantonWilkes-Barre	20024	23212	4754	21003	20372	21703	37004	4222	1103	700	2231)	700	701	23703	30740	2210	2374	055
Hazleton, PA MSA	81109	71051	11180	60265	96248	67922	125307	9923	2577	807	1762	1183	759	125022	171945	26440	5872	1074
SeattleBellevueEverett,																		
WA PMSA	285992	266029	46533	247978	222460	175035	383984	76601	17206	52287	22233	22043	23875	365628	480690	124939	44634	10601
Sharon, PA MSA	15071	13571	2256	11194	17546	12827	24169	1745	405	133	889	135	202	23153	33085	5051	998	117
Sheboygan, WI MSA	13273	12697	2030	11074	13310	11117	21630	1928	349	495	334	401	206	20775	25447	6385	1357	233
ShreveportBossier City,	40000	44.500				****												
LA MSA	49089	41503	8055	36134	46975	51368	67629	6086	1412	660	32605	1423	1258	48245	103532	14613	3398	745
Sioux City, IANE MSA	12660	10775	2113	9170	12478	10880	18856	1770	319	403	292	1149	446	17797	25821	4683	886	136
Sioux Falls, SD MSA	14814	14010	3021	11531	11793	10220	22680	3164	526	247	352	420	1042	22668	30846	5984	1121	252
South Bend, IN MSA	32931	28688	5812	23518	32855	28478	47251	4691	1384	768	6201	2029	930	43961	66446	11603	2832	550
Spokane, WA MSA	51384	46581	8915	39998	46811	35189	79657	8568	2152	2023	1486	1988	3479	75317	106616	17966	4380	888
Springfield, IL MSA	14347	11840	2157	10564	14383	9321	19053	2911	804	315	3534	273	280	18642	26196	5527	1575	270
Springfield, MO MSA	40973	36486	7625	30101	37576	34318	62062	5979	1313	488	1091	926	1954	61818	89535	12737	2456	608
Springfield, MA MSA StamfordNorwalk, CT	76904	63441	13068	54471	73164	64381	105304	11182	3504	2707	8035	12515	2281	96307	147246	28691	6942	1174
PMSA	44038	38208	5021	37164	45388	27269	41101	13854	4931	3044	6413	7280	1461	53869	62840	14003	6327	4100
State College, PA MSA	17237	16830	4251	12005	14131	10911	27948	2801	981	1048	824	337	335	26751	39442	5458	1141	272
StocktonLodi, CA MSA	64185	59317	11870	49870	56413	85505	88302	6584	1342	13390	7485	29221	5378		134781	20416	6419	1221
Sumter, SC MSA	12635	11297	2283	9696	10936	15954	17350	1318	274	243	12028	344	281	10102	28794	3641	695	103
Syracuse, NY MSA	89812		14109	70619	86387		131811	13048	4004	1883	8246	2345	3236		180061	33211	8451	1467
Tacoma, WA PMSA	82961		14658	69455	65010			12532	2776	9780	10737	6791	9208		159104	34225	10132	1673
Tallahassee, FL MSA	36873		8251	25961	25195		47566	7425	2387	1286	24809	2331	781	34764	74835	12090	3087	699
TampaSt. Petersburg																		
Clearwater, FL MSA	311334	265455	39184	223471	400985	269252	440160	47603	11270	10953	53792	46785	9740	384029	618534	105687	25530	6710
Terre Haute, IN MSA	18598	16974	3268	13525	19748	16949	29430	1805	658	232	1217	332	367	28361	41031	5817	1362	210
Toledo, OH MSA	76817	66230	13472	56666	70270	62261	116209	10302	2562	1415	15920	4421	2283	101338	150853	27309	7633	1309
Topeka, KS MSA	21516	18034	3231	16181	21242	14950	31012	3663	917	276	3261	1903	1098	27952	41128	8597	1782	341
Trenton, NJ PMSA	44262	38185	6562	35232	41077	38330	51141	8994	3317	4110	14924	6602	1415	47190	74003	16885	6285	1776
Tucson, AZ MSA	105782	92151	17657	76790	108745	89919	144707	17177	5315	3911	5161	44650	10020	109017	218558	32947	8443	2204
Tulsa, OK MSA	85024	75238	14377	66466	74869	72977	121134	14521	3077	1621	14978	6182	17093	102473	169824	30214	7946	1670
Tuscaloosa, AL MSA	21145	17953	4325	14736	17047	19791	28981	2893	888	411	11036	349	490	23387	43700	6650	1719	299
Tyler, TX MSA	21819	18440	3566	15606	22307	20790	29989	3173	726	333	7724	2882	493	24584	44100	6874	1831	417
UticaRome, NY MSA	36942	34360	5372	29076	41806	37643	55454	4251	1288	530	2554	1374	750	56021	80599	13301	2477	408
VallejoFairfieldNapa,																	_	
CA PMSA	61594		10452	50996	52900	56213	90464	10192	2227	12774	12912	17387	5857		113169	24897	8548	1732
Ventura, CA PMSA	87582	81756	14812	73831	71219	91873	114161	15890	3994	9469	3514	46219	4302	84802	161744	31029	11813	3409
VinelandMillville Bridgeton, NJ PMSA	17086	16851	2718	14314	17440	24508	24471	1463	339	238	6359	4389	760	18743	38142	5867	1543	196
VisaliaTulare	1/000	10031	2/16	14314	1/440	24308	∠44 / I	1+03	339	430	0559	4309	700	10/43	30142	500/	1343	190
Porterville, CA MSA	40114	38232	8370	30297	34077	72378	47484	2983	671	2403	1084	31945	2861	30435	96578	9157	2515	518
Waco, TX MSA	26375		5031	17987	25329	26990	38077	2929	696	363	6267	6283	502	29781	56262	8221	1620	365

300 Cities

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
	г	IVI	1	IVI	U	NO IIS	пъ	Con	Froi	A	ь	п	U	vv	30K	30-30	30-73	75+
Washington, DCMD VAWV PMSA	584521	515512	92926	499814	424089	415720	638548	148458	55305	75174	296646	80998	27900	535974	884525	240218	98382	30726
														000771				
Waterbury, CT PMSA	13316	11313	2226	9356	13909	15934	18155	1313	303	368	3645	3855	587	13497	26526	4946	1162	142
WaterlooCedar Falls, IA		400 #0	24.50			40004					4800					#00#		
MSA	16149	13952	3178	10777	15846	10701	25700	2278	559	293	1798	339	323	23241	34068	5085	1223	212
Wausau, WI MSA	14850	14330	2328	12721	13818	13432	24516	1856	350	584	75	149	208	23865	30299	6646	1271	215
West Palm BeachBoca																		
Raton, FL MSA	147863	126717	16645	99969	223532	116934	196314	28169	7497	3918	35603	26825	4929	171475	267067	51565	14851	6125
Wichita, KS MSA	64764	58045	10876	50461	59755	51707	95477	11280	2310	2956	8925	6099	3409	85866	124351	26276	6892	1165
Wichita Falls, TX MSA	15578	15512	3466	11133	15197	15090	24934	2160	446	630	2939	2988	809	19985	36890	4827	915	194
Williamsport, PA MSA	15171	13793	2108	12099	16623	13690	24710	1531	350	82	407	105	177	23897	33332	5022	1044	144
WilmingtonNewark, DE-																		
-MD PMSA	62961	53434	9938	48779	56204	45023	84382	12341	3399	2890	21177	4568	1503	73932	105001	26129	8764	1946
Wilmington, NC MSA	30277	26544	4468	22380	34314	23463	43478	5708	1064	285	9191	1157	775	38935	61158	9976	2597	695
Worcester, MACT																		
PMSA	36096	30544	5672	26572	36304	29665	46997	6626	1874	2485	2349	4451	1245	47186	66451	13633	4190	750
Yakima, WA MSA	24971	23666	4833	19272	22247	38668	31685	2340	615	681	287	13480	2866	25067	57414	7445	1592	307
Yolo, CA PMSA	21157	18390	4781	14703	15093	18152	26017	3970	1446	3888	745	7758	1848	20660	42077	6586	2162	502
York, PA MSA	47168	42369	6805	38706	45551	43856	71221	6110	1391	634	2548	1926	749	70836	90797	20130	4808	693
YoungstownWarren, OH																		
MSA	74909	66135	10799	56513	84353	68758	117813	8019	1697	616	13526	1955	1433	105282	157792	24630	6139	948
Yuba City, CA MSA	16031	14573	2821	12216	15206	20779	22413	1542	312	2430	724	4597	1674	17516	35227	4679	1265	229
Yuma, AZ MSA	18333	17292	3399	12484	22074	29122	23961	1249	376	239	678	14820	1004	14367	43946	4512	1047	189

Appendix H. Estimated Incidence of Nonreaders of Newspapers per City.

Table 19. Estimated Incidence of Nonreaders of Newspapers per City.

Table 1			Incia	ence o				_	-	_	-							
PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Abilene, TX MSA	r 29376	23820	21669	25498	8793	16812	32930	4930	2242	760	2928	10861	1203	38849	45912	8162	2560	1248
Akron, OH PMSA	162784	133181	92282	160662	52081	77208	185391	32954	15216	4407	29385	3322	4686	245728	222813	58103	25775	11002
Albany, GA MSA	28226	21700	18177	26282	7743	20526	27943	4020	2062	368	25094	1011	409	23642	41463	7865	3486	1247
Albany																		
SchenectadyTroy, NY MSA	186925	153927	100498	187970	61344	84816	201842	38123	28836	7077	17261	8755	6213	292186	247101	71302	34867	11907
Albuquerque, NM MSA	162552	136701	99533	166063	46203	90057	169282	32961	22587	5294	5947	152490	33814	143535	236610	52006	22558	11274
Alexandria, LA MSA	29121	24066	18157	27314	9587	22907	30249	3588	1963	344	16805	1400	1191	33408	47303	6952	2561	1208
Allentown BethlehemEaston, PA MSA	151623	125718	78717	149126	54752	86728	169143	26031	13988	4630	6017	22646	3848	235945	212276	53741	23356	9108
Altoona, PA MSA	31461	25574	17001	29344	11747	16677	39583	3640	1584	358	465	349	522	52885	49643	8875	2840	878
Amarillo, TX MSA	49519	40071	31918	46108	15215	30272	53004	8412	4363	2123	4379	19647	1872	64393	73865	14607	5953	2560
Anchorage, AK																		
MSA Ann Arbor, MI	55248	49945	39884	64349	8793	23943	65301	12928	6962	5659	6253	7499	15968	72967	68189	22724	14278	6167
PMSA	109508	94871	78506	115939	23235	36104	111173	32553	24291	9926	15151	6029	5313	164741	132044	39778	28472	14889
Anniston, AL MSA Appleton	26649	21438	15915	24496	9105	19708	28333	2902	1944	234	8834	1089	1030	36088	41536	7610	2329	909
OshkoshNeenah, WI MSA	79644	71741	49729	85055	23147	38334	100581	15556	5637	1869	911	2767	2159	138392	107766	37270	13581	4153
Asheville, NC MSA	54746	43933	28644	51345	20339	29318	56694	11579	6210	1175	5799	2971	1349	84562	80920	16648	5780	3302
Athens, GA MSA	36955	30900	34066	30879	8541	18838	38679	7801	5518	1703	11466	3338	865	49923	57129	10303	4035	2106
Atlanta, GA MSA	898927	759044	587212	978760	189184	496679	872606	243503	115879	61343	473104	134576	34744		1143050	344219	176979	96049
AtlanticCape May, NJ PMSA	84485	68352	40048	83765	30952	51655	90565	14941	6736	6024	19425	17154	3413	108450	114949	29660	13869	5549
AuburnOpelika, AL MSA	27055	22749	27253	21673	5642	12540	31527	4599	3551	1048	11755	962	841	34713	42272	7580	2900	1347
AugustaAiken, GASC MSA	103494	83619	63484	101657	29643	66746	108411	17229	9074	2975	60560	5889	3369	114634	151097	30773	14161	5993
AustinSan Marcos, TX MSA	259401	232744	207212	269997	52058	133899	250748	81219	40566	20073	36464	156873	11401	301822	347677	98112	48615	29400
Bakersfield, CA MSA	135359	119981	96329	136239	36793	128890	135686	15493	7356	9518	12084	120947	10910	132051	216526	35280	18410	7228
Baltimore, MD PMSA	591858	472330	310167	603716	180277	318809	573374	132254	87096	31786	277465	26080	21076	703139	722402	228835	122807	55124
Barnstable Yarmouth, MA MSA	35725	27960	12121	32625	17419	10615	38549	9387	5588	399	868	841	2400	57027	44457	13899	6287	3103
Baton Rouge, LA MSA	138019	113407	97669	133979	34272	80408	149146	25084	13292	3996	76563	5413	3650	160832	201121	41512	20840	7908
BeaumontPort Arthur, TX MSA	86159	74852	53355	83742	29359	59471	101069	11285	4358	3207	37687	15398	2829	104111	132578	25932	11792	4310
Bellingham, WA MSA	38970	33342	28920	36626	10854	16415	46940	8238	3812	2430	37087	4376	6291	58795	57726	12900	5276	2244
Benton Harbor, MI MSA	37989	31210	20756	37075	13062	21314	43203	5776	3626	775	7827	2696	1506	55170	54271	12632	5280	2374
BergenPassaic, NJ	324074	264757		331826			300449	87969	48139	52545	43377		14698	378395		114479	71740	47728
PMSA Billings, MT MSA	29454	24594	159865 16607	30550	108956 8758	173799 11902	33843	7698	2458	256	191	126824 2134	2570	47645	384416 43106	9917	3619	1727
BiloxiGulfport Pascagoula, MS MSA	71075	61383	46258	70938	21115	43184	83898	10255	5498	3333	29228	3812	2893	92415	109527	22570	8495	3220
Binghamton, NY MSA	60055	49054	32211	57443	21113	30887	68685	9244	6781	2643	2368	2268	1820	96524	88800	18690	7344	3186
Birmingham, AL MSA	193204	148558	112868	183233	57609	109916	190663	40882	19754	3420	111648	6657	4279	213989	261806	63101	27297	14162
Bloomington, IN MSA	31137	24643	32051	23275	6076	8993	33488	7400	6126	2311	1660	1081	1311	47888	47109	7794	3729	1762
Bloomington Normal, IL MSA	36073	29643	26149	34305	9119	12464	40548	9880	4128	1300	2751	1676	985	57065	47013	13413	7033	2741
Boise City, ID																		
MSA Boston, MANH PMSA	92573 818689	83358 657527	64906 457664	96700 819459	24145	51092 331833	106130 733453	20350 246797	8579 172067	2589 81207	682 93797	20196 105843		146325 1143248	137589 956929	31838	14127 183215	6256
Boulder Longmont, CO																		
PMSA Brazoria, TX	49901 49956	45051 48123	40685 32494	50413 57844	10900 12856	16681 36880	44712 58400	19413 8217	12452 3537	3034 2017	700 7811	12082 27228	2592 2220	77017 64306	64722 74201	17568 17193	10220 10531	7707 3682

PMSA/MSA PMSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Bremerton, WA PMSA	50443	47205	31362	56523	14173	20815	63790	11675	5269	4384	2637	4697	7578	78294	69455	20854	10432	3895
Bridgeport, CT																		
PMSA Brockton, MA	79553	63883	41016	78615	26907	47014	73985	17462	12201	3298	18309	27071	4496	95001	96893	28572	15958	9984
PMSA Brownsville	58671	48928	32419	62848	16280	29401	68382	11123	4866	1466	6739	5281	8227	85354	75970	23798	12050	3395
HarlingenSan Benito, TX MSA BryanCollege	72398	57069	51974	62664	21342	82753	54882	7335	4113	661	516	141219	667	22844	122475	12905	4579	2080
Station, TX MSA BuffaloNiagara	35054	32413	46489	23803	6093	17010	40952	7304	5193	3150	6730	15160	1151	44281	59990	7992	3681	1969
Falls, NY MSA CantonMassillon.	277189	224667	140884	269805	99862	144298	304070	48800	32592	5960	51368	16295	11281	406521	391581	90043	43534	15546
OH MSA Cedar Rapids, IA	95437	78792	51443	92544	34021	51901	115317	13300	6433	803	10733	1727	2953	152053	138804	32723	12423	4468
MSA	43206	36722	25003	43965	13630	15841	52686	10443	3645	951	1259	987	1076	72676	57947	17892	7290	2643
Champaign Urbana, IL MSA CharlestonNorth	42488	37354	38521	36432	11014	14247	50112	9370	7641	5497	6473	2634	1570	62734	62306	15459	5957	2488
Charleston, SC MSA Charlotte	103781	88147	68717	101721	30306	59062	107882	23277	12122	2598	60443	5620	3409	119997	151947	32952	13983	7819
GastoniaRock Hill, NCSC MSA Charlottesville, VA	343049	287517	208541	359065	91065	209277	346882	81259	31468	10062	127199	36935	10202	444505	464005	125797	55792	28986
MSA Chattanooga, TN	38813	31000	26642	36037	10664	18085	34379	10918	7670	2297	9533	1788	977	53956	52532	13308	5387	3435
GA MSA	103704	83359	57968	100009	34252	65908	106927	18674	9217	2210	27864	2853	2845	146958	149437	33360	12624	6341
Chicago, IL PMSA ChicoParadise,	1838467		1134582				1756821	456085	254405	176281	595236	685157		2012892		664365	390399	203683
CA MSA Cincinnati, OH KYIN PMSA	46963 339087	40492 278064	32497 198792	40762 339139	17370 101546	26810 191671	54832 351946	8178 71059	3682 37430	2562 8007	1098 80158	11448 7492	5602 9045	68031 496647	74776 450169	12357 124818	5678 56602	2289 28019
Clarksville Hopkinsville, TN																		
KY MSA ClevelandLorain	28616	25820	23375	28675	6390	15188	35950	4826	2113	1229	10612	3472	1788	37626	44483	10649	3189	927
Elyria, OH PMSA Colorado Springs, CO MSA	529618 111557	423560 100405	269745 78000	523970 119980	179297 26556	285282 45327	565572 130783	101146 27188	55588 15251	14837 5889	163084 12497	36770 28752	15324 8749	710752 159421	705795 157679	187780 41113	88541 19513	38409 9120
Columbia, MO MSA	32279	26606	28433	28072	7121	11673	33461	8557	5898	1780	4168	1218	1354	48958	47880	10149	3810	1834
Columbia, SC MSA	126597	104059	84307	126679	31834	64644	129675	30609	15612	4201	70153	8314	3898	144438	175860	45670	18378	8102
Columbus, GAAL MSA	41564	35657	31100	38126	12214	27069	46158	6270	3871	1513	33504	4192	2066	37832	64776	12351	4521	2179
Columbus, OH MSA	332343	274413	215096	335834	85936	154792	352016	83293	39221	17141	78306	14640	13716	472553	432322	129564	60635	25628
Corpus Christi, TX MSA	56781	49261	37441	58463	15383	40707	61118	8895	4654	1337	3006	65458	2056	49931	86284	16716	8594	3178
Dallas, TX PMSA Danbury, CT	731159	645565	514365	794835	155350	496800	688947	190749	85083	61645	194758	385822	32137	793175	976980	265709	137450	84296
PMSA Danville, VA MSA	41632 27051	35525 20790	19460 12339	48631 25473	11324 10336	18512 22852	36045 26923	14407 2280	8623 1507	2566 196	2382 14851	6752 514	2132 364	62903 31347	45442 41763	14718 7402	10800 2156	8872 813
DavenportMoline Rock Island, IA IL MSA	62360	50969	36867	59508	20531	31140	72282	11301	5194	1638	6186	8525	2165	93323	87666	21683	9415	3359
Dayton Springfield, OH	02300	30707	30007	37300	20331	31140	72202	11501	3174	1050	0100	0323	2103	73323	07000	21003	7413	3337
MSA Daytona Beach, FL	224297	181008		213460	72922	114609	254147	37899	22383	4985	54047	6109	7634	322909	303914	79997	37098	14060
MSA Decatur, AL MSA	108431 32796	90574 28032	49172 18036	95812 34319	52376 10335	60427 24512	128273 36017	15935 4516	8598 1800	2693 121	17561 8652	16451 1485	3641 2564	157210 47127	166800 48753	32046 10188	11355 5235	5682 1626
Decatur, IL MSA	27009	22241	15002	26270	9246	13549	33223	4016	1758	379	4773	517	477	41541	37780	9619	4173	1474
Denver, CO PMSA Des Moines, IA	439915	389149	282462	481801	108030	229177	437645	130080	60972	28266	44616	200806	24261	568394	555321	185559	91471	47501
MSA	86892	70958	53825	86776	24095	36335	94990	22884	8718	3605	7023	7366	2928	133531	112262	35962	14644	5954
Detroit, MI PMSA Dothan, AL MSA	1014700 31297	832178 26388	560367 18775	1042770 30986	303942 9946	573862 21577	1094777 35367	186360 4313	106242 1742	45094 596	403824 12224	66497 1496	48793 1382	1275348 41396	1288385 49345	341482 8822	227627 3423	103326 1213
Dover, DE MSA	28193	23452	17207	27700	8678	17978	31743	3923	2236	857	9632	1764	1462	37492	41029	10103	3582	1184
DuluthSuperior, MNWI MSA Dutchess County,	47274	40761	26693	46494	17032	20676	59839	8348	3849	564	364	834	3034	80198	70135	16773	6818	1717
NY PMSA Eau Claire, WI	61434	56482	31939	69251	19981	34163	67082	13470	9124	2746	10993	8538	2250	92707	81924	22589	14874	6206
MSA	33695	29456	22285	32636	10842	17893	42118	5286	2243	477	214	505	668	58711	52029	11708	3666	1261
El Paso, TX MSA ElkhartGoshen,	147454 39921	118749 34230	105544 25784	136461 39516	38988 12029	140575 30549	131970 43121	18169 5088	8704 2813	3155 958	8076 3001	275682 7639	4081 1036	47600 61009	244470 56622	30288 15924	11482 5178	5026 2230
IN MSA Erie, PA MSA	65188	54612	40069	62447	21430	35084	77563	10016	5278	754	5833	3162	1523	104804	99692	20573	7414	2495

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Eugene Springfield, OR MSA	76102	65134	48206	74755	23855	34001	89886	14845	8893	2818	1088	6371	6743	121713	113831	25539	9468	4028
Evansville Henderson, INKY	*****	45500			20.452	20221		0.450					4004	0.4000	0.1201	10.11		****
MSA FargoMoorhead,	60022	47793	33520	56598	20452	30334	71106	8652	4761	666	5051	889	1026	96009	84391	19646	8847	3288
NDMN MSA Fayetteville, NC	27197	25716	22698	26808	7084	10028	34595	7607	2320	621	302	516	1261	48410	42427	9633	3703	1585
MSA Fayetteville SpringdaleRogers,	63217	59474	53978	63292	14720	33013	83315	10333	4385	3236	41915	10202	6024	65302	102126	21485	7687	2404
AR MSA Fitchburg	68172	61139	46097	68802	20468	44193	78002	11510	5725	1706	1157	9549	5038	110390	108901	20800	7212	3649
Leominster, MA PMSA	32538	27115	17530	33788	10103	19917	35598	5509	2939	1032	1429	5205	1338	49994	44324	12821	5585	1489
Flagstaff, AZUT MSA	25811	22171	18868	26585	5662	14415	26938	5751	3346	430	446	6513	15090	29220	39196	8002	3520	1279
Flint, MI PMSA	54535	42747	33787	51117	16202	34800	64244	4888	2622	784	33800	3017	3530	56808	79452	14793	8504	2452
Florence, AL MSA	34125	27566	18317	32452	12200	23931	36159	4539	2647	183	7817	835	639	50442	51778	9659	3775	1682
Fort Collins Loveland, CO MSA	53314	47746	42328	53917	11989	17392	58457	16534	9239	1514	515	10022	2778	85537	72729	20141	9866	5196
Fort Lauderdale, FL PMSA	386954	311997	187482	382096	139573	213346	402303	79404	42655	18571	132275	152498	26382	404734	517433	133801	62302	33403
Fort MyersCape Coral, FL MSA	105921	90575	40711	91014	59385	57637	120803	19347	10686	1483	11164	21663	3012	158468	151844	36782	13475	8974
Fort PiercePort St. Lucie, FL MSA	77811	64858	29659	66712	42508	45146	86585	13315	7289	1086	15121	12858	2538	110440	112588	23839	9634	7120
Fort Smith, AR OK MSA	38360	32568	22472	38509	12304	28587	43169	4540	1913	1610	2385	4407	3717	58218	61564	10715	3301	1697
Fort Walton Beach, FL MSA	38415	34748	23606	39285	12847	16299	47148	7897	4823	2246	6283	4398	2860	57077	56618	13361	5934	2888
Fort Wayne, IN MSA	103083	86506	62278	103603	30971	54051	123456	15991	8566	2076	12639	7124	2669	160418	142495	39806	16200	5570
Fort Worth Arlington, TX PMSA	369834	314545	242136	390030	89016	234299	381381	80394	34044	22331	72640	150232	17389	450185	501145	134246	65278	31365
Fresno, CA MSA	196300	167924	141642	189809	53085	186887	183826	25925	12049	26862	17868	199258	16958	156871	316299	48308	22623	9287
Gadsden, AL MSA	24592	19572	12687	22962	9191	18155	26598	2480	1486	167	5341	729	603	36096	37931	6745	2560	830
Gainesville, FL MSA GalvestonTexas	54271	44065	48103	44812	13060	19814	58138	12259	9923	3650	17811	6956	2760	67652	82760	14176	6050	3439
City, TX PMSA Gary, IN PMSA	55782 146101	47850 118928	31552 85922	58949 142992	16738 45252	33556 83678	60279 169874	10678 20375	5890 10964	2346 2832	14908 52955	21753 34789	2238 4359	66530 174747	74317 201071	19738 46472	11526 29172	5013 8160
Glens Falls, NY MSA	27974	24773	13676	29540	10377	16370	32913	4385	2795	238	989	934	755	47957	42808	9849	3249	1320
Goldsboro, NC MSA	25882	21954	15541	26037	8008	17978	29013	3692	1524	532	16290	2427	744	28265	41417	7290	2474	971
Grand Junction, CO MSA	26230	21857	15604	24433	9377	13466	30355	4711	2395	199	183	5914	1270	40346	39967	7697	3135	1334
Grand Rapids Muskegon Holland, MI MSA	217522	185179	144729	218985	59025	118202	246367	43118	19277	6531	29490	29169	8583	324799	300322	80632	38130	13626
Greeley, CO PMSA Green Bay, WI	38779	34727	28329	40013	9631	25901	44297	6561	2794	605	315	22184	1618	52569	57350	14143	5843	2106
MSA Greensboro	50089	44566	31612	53794	13664	24687	61390	10765	3180	1843	912	3822	3279	82755	67819	21808	8837	3138
Winston-Salem High Point, NC MSA	294232	241433	167161	294567	91313	184107	307216	58403	23686	6493	102681	30688	8371	384553	416366	103002	38878	18579
Greenville, NC MSA	32915	25015	24357	28548	8443	19479	33050	6092	3097	594	20154	2057	851	34403	48157	9688	3320	1547
Greenville Spartanburg																		
Anderson, SC MSA Hagerstown, MD		153156	108222		58712		189706	33241	15399	3714	64791	12010	3951	251216	271498	61912	23999	10110
PMSA Hamilton Middletown, OH	30100	25313	15125	30388	10873	19484	35092	3465	2243	335	2684	687	601	49122	43503	10871	4188	1348
PMSA Harrisburg	76561	63752	52507	73871	21081	39560	88395	13679	7027	2458	7485	2041	1834	121976	102796	27518	14370	5564
LebanonCarlisle, PA MSA	149323	121906	80023	146929	50759	80612	169994	24769	13319	3258	14907	7703	3199	234132	205743	56563	22108	7652
Hartford, CT MSA Hattiesburg, MS	167478	133541	84298	164509	57892	93350	156894	38377	25807	9154	33948	44783	7774	211126	202072	64072	35790	16843
MSA Hickory	26692	20369	19186	23366	7100	14761	28039	4982	2217	415	11191	827	494	33379	40879	6639	2463	1155
MorgantonLenoir, NC MSA	79061	68229	44566	81332	25850	66351	83356	9868	4176	3077	10218	6138	1625	123068	122513	27631	6922	3139
Honolulu, HI MSA	198164	177727	127689	197238	65501	95618	225704	48441	22350	208461	8198		110482	77457	278675	75585	35895	13748
Houma, LA MSA	22555	19311	15614	22902	5686	22061	22445	2157	848	437	6759	888	3713	30079	35635	6669	2490	807
Houston, TX PMSA	906103	783695		965800	198204		833357		96275	97269	296465		35183		1273488			90412

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
Huntsville, AL MSA	79174	65498	46368	81531	22420	42087	79073	19957	9853	2077	31203	3440	4638	102143	108536	24826	14737	6707
Indianapolis, IN MSA	367475	301392	217005	373794	104336	196781	392237	77757	38166	7911	87877	18396	9555	531006	478925	139351	68144	28148
Iowa City, IA MSA	25927	22699	25761	22610	4961	6796	27760	8448	5166	1671	890	1599	625	42560	36620	9891	3925	1840
Jackson, MI MSA	35910	31883	20476	37925	11580	20269	44786	5352	2437	337	4265	1754	1251	58342	51659	13656	6033	1819
Jackson, MS MSA	102684	79343	68845	96574	26085	63042	99066	21393	10100	1106	85022	2074	1977	92964	148495	30348	11989	5732
Jackson, TN MSA	25528	19713	15477	23656	7756	17003	25836	4060	2025	341	14002	449	546	29434	37693	7530	2449	1303
Jacksonville, FL MSA	254558	207511	148149	259097	72450	137321	280775	48993	22669	12252	96407	22440	10258	319743	349552	90066	38350	17953
Jacksonville, NC MSA	27186	34852	38789	24894	6123	14023	47820	3496	1552	1332	10564	6202	2378	42971	56528	8521	2783	809
Jamestown, NY MSA	32757	27303	18610	31481	11518	19858	38610	3820	2679	199	955	2386	906	53780	50932	10112	3376	1003
JanesvilleBeloit, WI MSA	33949	29523	18971	35618	10858	18453	42430	4871	2332	455	1964	2331	824	56069	45654	14345	6333	1843
Jersey City, NJ PMSA	143257	121571	98607	140130	39646	115371	124656	31649	15262	28151	29523	140482	11394	95897	206559	46478	22790	9415
Johnson City KingsportBristol,																		
TNVA MSA Johnstown, PA	76032	62425	39875	73990	27303	51440	81405	11397	5956	509	3353	1631	1294	126153	117292	21942	7699	3471
MSA	55143	48249	29223	52463	22980	34869	69774	5763	2564	260	2202	961	529	95221	93457	14791	4081	1142
Joplin, MO MSA KalamazooBattle	35902	29800	21643	33908	12206	22316	42252	4502	2231	515	536	1914	2969	58060	57618	9996	2885	1215
Creek, MI MSA Kankakee, IL	103974	86746	65810	101514	31251	52771	122442	17654	9343	2465	13909	7606	5460	157614	147209	36823	15820	5716
PMSA Kansas City, MO	23892	18926	14170	22594	7499	13875	27881	2732	1758	380	5992	2301	482	33047	32949	8471	3666	1066
KS MSA	384009	318186	224028	392048	112289	184770	413038	90779	43301	12587	80816	42620	17473	542554	496836	152400	71221	29439
Kenosha, WI PMSA	33414	28761	20594	34339	9802	18725	39882	5424	2517	627	1850	4701	1138	52894	45318	12881	6784	1810
KilleenTemple, TX MSA	65825	61467	58401	61915	16637	35259	86858	9691	4629	3745	22767	23128	4593	78411	108361	20408	7176	2864
Knoxville, TN MSA	138538	112303	79275	135031	44309	78336	145146	27002	15167	2879	16543	2773	3888	216490	203286	41411	17788	8369
Kokomo, IN MSA La Crosse, WIMN	23102	19288	12672	23402	7514	12507	28386	3095	1535	255	1800	630	568	37647	30849	7520	5250	1713
MSA	25404	20513	18502	22334	7463	9001	31006	4920	2620	621	498	319	816	41865	36137	9080	2957	1371
Lafayette, LA MSA	56257	46050	37999	55180	14509	40173	55889	10455	4323	1168	21663	2030	740	74975	85721	14734	7198	3155
Lafayette, IN MSA Lake Charles, LA	41635	37658	41123	34596	10420	16615	53964	7238	4983	3364	1232	4483	1351	67574	65078	13006	5979	2013
MSA LakelandWinter	41540	34336	26592	39363	12948	27162	46555	6067	2582	355	17452	1270	1010	54626	62764	11495	5881	2058
Haven, FL MSA	112364	93996 88561	56807	102845	48058 35077	81939 72820	121853	14735 18006	7604 8068	2719 3013	26292 4155	20937 11071	4132 2096	152885	172389	34391 40061	12292 15456	5005 5918
Lancaster, PA MSA LansingEast	105881		62672	102872			111730							169507	147977			
Lansing, MI MSA Laredo, TX MSA	103881 39345	85716 32116	71198 31900	102145 35899	26523 8840	42215 49201	123050 28574	20024 3330	11960 2220	4430 352	10914 124	8588 91494	4889 256	157297 3437	137086 69017	38912 6306	21144 2481	6069 863
Las Cruces, NM MSA	37086	32682	28132	34532	10983	32886	34632	5784	3738	496	859	57409	1869	23790	63413	7995	3546	1424
Las Vegas, NV AZ MSA	299007	275453	191644	319061	89084	205658	351918	45410	21652	36010	50152	152374	25764	347771	435983	112168	50198	20475
Lawrence, MA NH PMSA	59948	47915	32866	61806	16923	36286	54795	13668	8711	3592	1093	27017	1872	78319	77304	19143	10845	7095
Lexington, KY	62058	51892	46255	60173	14759	27230	62590	16171	10681	2994	15242	4294	2251	87645	87283	19822	9816	5265
MSA Lima, OH MSA	34901	30442	20733	35074	11656	18257	46353	3845	1971	270	4630	1056	1106	56306	51787	12436	5063	1486
Lincoln, NE MSA	56975	50099	46610	54223	13794	19948	66534	15859	6959	2632	2503	3852	2522	93026	80591	22684	8234	3727
Little RockNorth Little Rock, AR	125006	111056	06417	122401	20.400	74605	140245	20044	12604	2200	40521	5410	4501	102204	107441	11050	10.05	7416
MSA Longview	135806	111856		132401	39489	74605	149347	26044	12684	2208	49531	5412	4501	182294	197441	44969	17675	7416
Marshall, TX MSA Los AngelesLong	39735	32661	25210	37169	12744	25861	44336	5605	2737	516	16495	5611	1262	48810	60621	11386	4537	1973
Beach, CA PMSA Louisville, KYIN	2090869		1450967			1783645		429752		581385		2153863						186201
MSA Lowell, MANH	218262	174747		216919	70295	117488	225387	44317	26392	5251	50458	7052	7217	313793	292681	75694	34878	17286
PMSA	64643	54954	36122	71340	16949	35831	66370	14885	8422	10244	2258	8811	3311	94775	80044	25689	14396	6682
Lubbock, TX MSA Lynchburg, VA	55689	46529	43460	50414	14743	33285	59716	10696	5282	1503	6979	33256	1307	65565	85937	15900	6144	2917
MSA	51132	41346	28279	47749	18469	33161	54326	8210	4114	739	16960	1299	1298	70262	76120	15808	5746	2489
Macon, GA MSA	75187	58476	44220	73024	21470	49348	78051	11278	5939	1525	51719	3577	1831	75567	105849	24600	10379	3441
Madison, WI MSA Manchester, NH	98494	87209	68412	103200	24627	33070	106298	29675	17833	6261	4954	7493	3446	159543	124536	44391	20021	8750
PMSA Mansfield, OH	24977	21091	14968	24501	8147	14261	27535	5146	2035	1160	768	2028	835	40162	34884	9867	3645	1259
MSA	28736	26318	16347	29795	10375	18996	36697	3181	1390	269	4831	453	1029	46865	45150	9962	3427	1296
McAllen EdinburgMission,	115899	97452	94394	103280	30007	149384	83639	11035	5429	1633	1266	250561	1264	24541	209034	17555	5950	2733

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
TX MSA MedfordAshland, OR MSA	42354	34929	21287	40524	16437	21556	48170	7805	4124	824	330	5435	3168	66389	63377	12284	5503	2424
Melbourne TitusvillePalm																		
Bay, FL MSA Memphis, TNAR-	113569	97072	50017	108222	51583	52890	131856	23052	12719	4067	15642	11836	5225	171028	162137	38280	18170	7991
-MS MSA Merced, CA MSA	228537 42096	179545 37821	141353 31348	226132 41698	59274 11514	137209 44407	227643 41059	45143 4147	23825 1642	8592 5617	180540 2576	11524 46881	5602 4342	206881 33269	309908 70250	77018 10652	33531 4564	16941 1792
Miami, FL PMSA Middlesex	524952	421764	301506	498101	174457	448752	449599	81901	59785	14609	176540	763352	22231	180139	813092	126775	54709	31720
Somerset Hunterdon, NJ PMSA	269740	227291	146174	290089	77679	119657	255270	80520	49759	58991	35122	69752	10506	336500	303484	100295	73803	41972
Milwaukee Waukesha, WI PMSA	343880	282971	200966	341813	105797	180010	361055	80329	36045	10955	80998	46775	12828	472503	443995	135027	63410	26786
MinneapolisSt. Paul, MNWI	625005	550019	392806	690162	160237	259606	605092	192262	77812	42988	49410	44770	29887	006200	765398	206242	140539	64151
MSA Mobile, AL MSA	635905 125864	98811	73540	118459	39889	82634	695082 131728	183263 18998	9763	2976	60524	3944	5052	996208 150346	186067	286242 35794	14767	64151 6488
Modesto, CA MSA	96430	82280	64489	96795	26334	80943	100601	11879	5269	8188	3520	65737	11676	105658	145540	29264	13326	5297
MonmouthOcean,			44.500		101011				22510	4.40	2.550.2		=2=0	*****		00#04		
NJ PMSA Monroe, LA MSA	264251 35152	212411 25729	115906 23092	262247 30249	101264 10190	121062 22094	276451 34710	63693 5749	32710 2902	14077 489	25793 21536	33602 826	7378 589	389481 37057	316225 52439	88581 8963	61292 2988	35542 1632
Montgomery, AL																		
MSA Munnin IN MSA	76724	63563	48103	74666	23161	49139	77269	14566	8847	1091	52314	1979	2142	82766	113346	23384	9959	4797
Muncie, IN MSA Myrtle Beach, SC	28721	23456	20751	24556	9289	15570	33530	3843	2811	256	3042	724	656	45688	43336	8579	3530	1173
MSA	46782	39508	25414	44890	17646	26918	54122	7702	3669	479	13070	2584	1278	67274	70973	14623	5331	2550
Naples, FL MSA	59432	51908	24459	50948	33309	33219	60776	14858	7756	823	4286	25115	1640	82762	78819	19936	9503	9393
Nashua, NH PMSA Nashville, TN MSA	26216 285919	22257 238501	14449 180576	28910 293866	6990 74912	12020 167253	27449 293439	7046 65388	3492 28631	1489 8117	440 75702	2442 19919	769 10896	42238 402511	30886 387945	11230 105980	5956 45841	3074 22032
NassauSuffolk, NY PMSA	633725	526479	304966	670351	208599	273970	634349	157355	120134	45260	88467	139075	21882	873901	727974	213767	162736	107081
New Bedford, MA																		
PMSA New Haven	41892	33642	22624	39209	15209	35194	39534	5835	3024	726	1873	4532	6551	61511	60753	13436	5633	1872
Meriden, CT PMSA New Orleans, LA	84955	67510	49257	81638	26547	43515	83574	16972	14654	4585	18480	21359	3763	106869	106117	31500	17230	7321
MSA New York, NY	291538	230455	173976	283505	84489	195793	288097	51230	27137	12334	193784	32231	9834	282644	428086	83593	36439	16069
PMSA	2238571	1736589					1841366	478166	340266	426479	857375				2995323	647831	374627	220752
Newark, NJ PMSA Newburgh, NYPA	473202	380104	241307	493792	141808	254882	436446	122282	72056	40170	168782	138485	21381	514444	559701	164199	105300	67304
PMSA NorfolkVirginia BeachNewport	73979	64875	42617	81647	20239	42146	83626	13027	8738	2357	8768	17353	2515	108482	97242	27194	16826	6741
News, VANC MSA Oakland, CA	349713	298161	238511	350264	93039	175429	402934	67919	36358	22199	202214	25421	17487	386774	496256	126847	52968	21609
PMSA	547493	459306	315467	583955	148095	279583	507643	156323	92209	198344	120734	223560	57081	488361	646889	196342	131739	81718
Ocala, FL MSA OdessaMidland,	63014	51620	25315	52047	34390	39932	73718	6962	4156	930	12640	8065	2209	89665	100324	16655	5208	2698
TX MSA Oklahoma City, OK	52711	43169	32870	51117	15748	41758	51937	8683	3018	522	5367	40679	1207	56630	79544	14683	6353	3156
MSA	204644	172692	140710	198379	57301	112947	222492	42232	21261	12696	40676	32432	31628	266189	301788	66832	27299	11779
Olympia, WA PMSA Omaha, NEIA	47762	41642	30133	49526	13683	21464	53731	10981	6546	4191	1767	4762	5675	72588	63705	19078	10191	2875
MSA Orange County, CA	131528	110155	85787	133098	34738	59835	142208	34040	14396	4674	22379	18843	5598	188768	177860	49812	21469	9808
PMSA	625779	548165	409097	660041	164054	415926	588299	161300	77758	194707	17221	446697	42478	599026	831376	204419	128708	80703
Orlando, FL MSA Panama City, FL	376361	323317	220096	384250	119163	208012	409025	84764	36777	20305	85396	144172	20612	457007	542824	127981	54014	28020
MSA	34388	28645	18096	34578	11799	19407	40116	5001	2999	1340	6674	1393	1814	50574	51550	10886	4130	1710
Pensacola, FL MSA	93571	82786	58183	93849	30752	52726	108918	17490	8592	3576	28953	5935	6629	130109	144245	28890	12406	5490
PeoriaPekin, IL MSA Philadelphia, PA	80242	67353	46498	78234	27186	39594	96068	14060	6595	1498	9397	2664	1773	127618	110149	28871	14587	4937
NJ PMSA PhoenixMesa, AZ	1194747	956635	637879	1180682	388281	635262	1193726	269098	153523	75952	370111	123171	38382	1536657	1505732	430743	237104	113039
MSA Pittsburgh, PA	672274	596479	451828	671545	203536	413667	712483	148656	72851	31649	42148	381017	48963	842602	939468	244468	114332	60507
MSA	556437	443417	267475	522856	218017	263669	621243	107339	57073	11133	68206	9460	10864	865348	797825	169160	78199	32870
Portland, ME MSA Portland	57194	46672	28682	61069	16981	21214	59152	16481	8518	1605	1273	1323	2010	93889	75749	21863	8784	4649
Vancouver, OR WA PMSA	404710	349516	249118	436237	104375	187566	440163	103976	49894	40398	20843	63768	32658	597521	533629	157015	77831	36248
ProvidenceFall RiverWarwick,	246275	193994	135084	234457	81992	170804	237465	43457	23426	10570	14266	42608	15624		340288	83401	37780	12637

PMSA/MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
RIMA MSA ProvoOrem, UT																		
MSA	75692	65171	85394	58035	13377	31603	91182	17137	6776	1713	431	11211	3537	121862	117355	20497	10620	4222
Pueblo, CO MSA	31347	25870	18562	28928	11259	19411	35717	4506	2194	540	1078	28106	1364	32365	49315	8980	3143	946
Punta Gorda, FL																		
MSA	36473	29607	10529	25741	25576	19955	42155	5242	3272	456	2984	2553	988	57263	54027	11419	3783	2199
Racine, WI PMSA	41791	34871	20725	44105	13580	22744	48307	7498	3125	241	5421	5022	846	63748	53408	16730	8972	2788
RaleighDurham Chapel Hill, NC																		
MSA	273731	231200	184496	288992	61059	135299	252046	85306	44335	14603	113549	35766	9621	334782	355327	100693	52476	28490
Reading, PA MSA	86261	71657	46271	85566	29786	53953	97148	13106	6274	1546	3561	12516	1790	135690	120040	31705	13509	4761
Redding, CA MSA	37321	31133	18148	37583	13720	19450	45078	5867	2644	1324	304	4112	4743	57380	55958	10945	5122	2040
Reno, NV MSA	75037	68630	46493	81825	21595	41661	86891	16282	7247	6697	2706	28147	9446	102390	103650	29944	13725	6497
Richland																		
KennewickPasco, WA MSA	40230	36457	28125	41644	11023	29603	42028	7261	4168	1951	796	20392	2042	55021	59352	12853	7679	2749
Richmond																		
Petersburg, VA																		
MSA	234887	187688	129460	242501	65588	126451	227557	58876	28416	9851	126959	12110	8900	264865	298813	91362	41242	19112
RiversideSan Bernardino, CA																		
PMSA	680182	599896	458542	682237	199970	524527	742463	92337	47962	61885	90741	580369	54758	641315	1018667	207062	111206	44855
Roanoke, VA MSA	57868	44923	28276	56013	20158	32308	61214	10635	5103	861	13365	1499	1746	82618	81473	19127	6862	3320
Rochester, MN	25561	22525	15700	20.675	7.01	11207	20416	7122	2612	1617	c05	0.42	07.4	45202	24025	12026	4000	2462
MSA Rochester, NY	27561	23525	15708	29675	7681	11387	30416	7133	3612	1617	695	943	974	45293	34025	12836	4998	2463
MSA	237583	195894	131932	241770	73400	118913	254663	49000	31032	8368	38129	21169	9074	349768	321458	87255	41239	15179
Rockford, IL MSA	71227	61117	40050	73554	22847	42572	82778	11601	5276	1485	9999	10813	1825	106913	96128	28119	13140	4576
Rocky Mount, NC																		
MSA	33878	26373	16841	34136	10658	25774	35015	4277	1476	114	24942	1940	674	32962	50782	10242	3188	1232
Sacramento, CA PMSA	368605	306352	212983	375959	110099	188656	400002	81943	37987	70713	48096	112354	39640	433051	479647	132444	77117	30738
SaginawBay City-	308003	300332	212903	313737	110099	100030	400002	01743	31761	70713	46070	112334	37040	455051	4/304/	132444	//11/	30736
-Midland, MI MSA	92339	77297	51914	93238	29646	49953	113075	13093	5903	1477	12889	7711	2828	141166	133038	29447	14935	5461
St. Cloud, MN																		
MSA	37695	34434	27692	37343	11008	20463	48487	5945	2407	894	313	852	722	66618	57505	14718	4424	1630
St. Joseph, MO MSA	23314	20241	14864	22556	7749	12530	29177	3475	1500	198	1120	1054	650	39091	36050	7732	2550	993
St. Louis, MOIL	2001.	202.1	1.00.	22000	,,,,	12000	2,1,,	5.75	1500	1,0	1120	100.	050	3,0,1	50050	7732	2000	,,,,
MSA	605013	489316	342016	596315	190112	334685	639070	118919	64793	16590	189159	20607	17167	830329	805953	218766	102610	44187
Salem, OR PMSA	61276	54733	40368	60754	19704	40411	69457	10492	4898	2378	791	21330	4708	89492	91928	21350	9050	3205
Salinas, CA MSA	60068	56077	43950	61847	16858	52405	56533	11101	7155	10582	6241	58689	5835	51177	90559	19215	10409	4918
Salt Lake City Ogden, UT MSA	275868	252274	233174	269688	64692	145304	323154	60300	28090	14341	5293	65737	19071	426955	401061	101670	46103	19739
San Antonio, TX	273606	232214	233174	209000	04092	143304	323134	00300	28090	14341	3273	03737	190/1	420933	401001	101070	40103	19/39
MSA	347148	288703	231434	338339	96804	236963	351658	62092	34347	11245	44555	410727	13649	258705	514959	102485	46205	22768
San Diego, CA																		
MSA	618264	558722	437526	624718	176528	342577	658561	149806	82854	123550	61965	374061	59222	659608	878529	207960	113077	60437
San Francisco, CA PMSA	415466	366852	229336	447658	130216	199614	339294	157507	89395	203432	38956	161395	38069	402134	475416	152472	103126	82766
San Jose, CA	115 100	500052	22,550		150210	1,,,,,,	55727.	157507	0,5,5	200.02	50,50	101375	50007	102151	.,,,,,,,	102172	103120	02700
PMSA	371901	341566	242027	411735	96312	200325	321944	123437	81586	211013	19073	199939	31713	326497	434558	124318	99879	81941
San Luis Obispo																		
AtascaderoPaso Robles, CA MSA	55794	52465	38968	54136	19642	26942	67717	12302	6460	3912	2092	21590	4428	79831	84479	17235	9942	4876
Santa Barbara	5577.	52.05	50,00	5.150	170.2	20, 12	0,,1,	12302	0.00	3712	20,2	21370	20	7,001	0.177	1,233	,,. <u>.</u>	1070
Santa Maria																		
Lompoc, CA MSA	89999	79505	64495	84536	28583	54969	91184	20506	12326	7950	3324	67209	6030	100542	129258	27038	15572	9504
Santa Cruz Watsonville, CA																		
PMSA	58937	52125	40260	62571	14481	32997	57491	16201	8873	4950	871	37131	4714	71523	79616	18625	11284	8233
Santa Fe, NM MSA	34563	28912	17709	37327	10290	17347	30420	9026	8026	706	496	36130	4241	30987	45281	11852	5935	4281
Santa Rosa, CA	40.000				22101					4084		20240		4.450.5		10010	*****	
PMSA	105259	90865	5/453	112753	32186	54062	111424	26104	13031	6874	2445	38368	9299	145205	132230	40349	23080	12111
Sarasota Bradenton, FL																		
MSA	149261	117818	50762	120566	85551	66936	163364	30296	17672	2730	13673	18323	3356	223991	199957	50514	20215	14408
Savannah, GA																		
MSA	53805	44445	33687	50418	17647	33090	54398	11315	5662	1613	40219	2769	1613	53005	78598	16340	6990	3918
ScrantonWilkes- BarreHazleton,																		
PA MSA	151405	124952	76027	144113	59447	80375	179928	22458	12314	1669	3139	3322	1747	255044	229260	46911	17289	6449
SeattleBellevue																		
Everett, WA PMSA	533853	467844	316428	592993	137401	207125	551362	173361	82209	108060	39603		54913	745881	640920	221666	131424	63608
Sharon, PA MSA	28133	23867	15342	26769	10837	15179	34705	3949	1935	276	1584	381	466	47233	44114	8962	2938	703
Sheboygan, WI MSA	24777	22330	13807	26483	8221	13155	31059	4365	1670	1023	595	1128	475	42380	33929	11328	3996	1403
ShreveportBossier			20007	20.00	0221	-0100	2.007	.505	10/0	.020	2,73	.120	.,,	.2300	55,27	-1520	2,70	1.05
City, LA MSA	91634	72988	54779	86409	29014	60785	97108	13774	6747	1365	58078	3997	2895	98420	138042	25926	10006	4475
Sioux City, IANE	22722	100 50	1.40=7	21020	9505	10075	2000	400=	1500	000	#20	222	1007	2.00=	24/25	0000	2400	017
MSA Sioux Falls, SD	23632 27653	18950 24639	14372 20544	21929 27575	7707 7284	12875 12093	27075 32566	4007 7161	1528 2515	833 512	520 627	3226 1180	1027 2398	36307 46243	34428 41128	8309 10617	2609 3301	817 1517
SIOUX PallS, SD	21033	24039	20344	21313	1204	12093	34300	7161	2313	312	027	1100	2396	40243	41128	1001/	5501	1317

PMSA/MSA MSA	Sex F	Sex M	Age Y	Age M	Age O	Ed No HS	Ed HS	Ed Coll	Ed Prof	Race A	Race B	Race H	Race O	Race W	Inc 30K	Inc 30-50	Inc 50-75	Inc 75+
South Bend, IN																		
MSA	61471	50451	39523	56240	20293	33699	67848	10616	6615	1587	11047	5698	2140	89680	88594	20586	8341	3304
Spokane, WA MSA	95917	81919	60628	95648	28912	41640	114380	19390	10282	4182	2647	5583	8003	153647	142155	31875	12896	5330
Springfield, IL																		
MSA Springfield, MO	26782	20823	14669	25262	8883	11031	27359	6590	3843	652	6295	768	645	38031	34929	9806	4638	1621
MSA	76482	64165	51853	71982	23209	40609	89115	13532	6274	1009	1944	2602	4494	126109	119380	22598	7231	3650
Springfield, MA MSA Stamford	143554	111568	88862	130258	45189	76184	151206	25306	16745	5595	14314	35139	5247	196468	196328	50903	20440	7046
Norwalk, CT PMSA	82205	67193	34146	88870	28034	32268	59017	31355	23559	6292	11424	20441	3362	109894	83787	24844	18629	24602
State College, PA MSA	32177	29598	28912	28708	8728	12912	40130	6339	4688	2167	1469	947	771	54573	52589	9685	3362	1635
StocktonLodi, CA																		
MSA	119812	104316	80716	119256	34843	101181	126793	14901	6411	27674	13334	82044	12371	112273	179708	36222	18900	7331
Sumter, SC MSA	23586	19868	15525	23188	6754	18879	24913	2984	1313	503	21426	966	648	20608	38393	6460	2048	618 8802
Syracuse, NY MSA Tacoma, WA	167650	140660	95946	168873	53357	88060	189267	29530	19134	3893	14689	6585	7445	266892	240081	58923	24885	
PMSA Tallahassee, FL	154861	136491	99677	166089	40153	77683	189250	28362	13265	20212	19125	19069	21178	214811	212139	60723	29834	10040
MSA TampaSt.	68829	55862	56109	62082	15561	31856	68301	16805	11406	2658	44191	6544	1797	70918	99780	21450	9090	4196
Petersburg Clearwater, FL																		
MSA Torra Houta, IN	581157	466834	266453	534388	247667	318615	632024	107733	53849	22636	95818	131359	22402	783420	824712	187509	75171	40262
Terre Haute, IN MSA	34717	29852	22224	32342	12197	20056	42258	4085	3147	480	2168	934	845	57857	54709	10321	4012	1264
Toledo, OH MSA	143392	116475	91614	135506	43402	73676	166864	23316	12244	2925	28358	12415	5251	206729	201137	48452	22475	7858
Topeka, KS MSA	40164	31715	21976	38693	13120	17691	44530	8290	4383	571	5810	5345	2526	57023	54838	15254	5248	2046
Trenton, NJ PMSA	82624	67153	44623	84252	25371	45357	73433	20355	15851	8495	26583	18538	3255	96269	98670	29958	18508	10656
Tucson, AZ MSA	197459	162060	120073	183630	67166	106404	207784	38874	25394	8084	9193	125363	23047	222395	291411	58454	24860	13228
Tulsa, OK MSA Tuscaloosa, AL	158712	132316	97765	158941	46242	86357	173936	32865	14704	3350	26679	17357	39313	209046	226432	53605	23397	10021
MSA	39471	31573	29411	35239	10529	23420	41614	6547	4243	850	19659	982	1128	47710	58267	11799	5063	1795
Tyler, TX MSA	40729	32430	24250	37318	13778	24601	43062	7181	3471	688	13758	8093	1135	50152	58800	12196	5392	2507
UticaRome, NY MSA	68959	60426	36531	69531	25821	44544	79627	9621	6156	1095	4550	3859	1725	114284	107466	23600	7294	2453
VallejoFairfield Napa, CA PMSA	114975	101351	71076	121947	32673	66518	129898	23067	10641	26400	23001	48819	13473	119700	150892	44172	25172	10394
Ventura, CA PMSA	163487	143779	100722	176553	43988	108716	163924	35961	19086	19570	6259	129768	9896	172996	215658	55051	34783	20456
Vineland Millville																		
Bridgeton, NJ PMSA	31894	29635	18482	34229	10771	29001	35138	3312	1619	492	11328	12325	1750	38236	50856	10410	4544	1176
VisaliaTulare Porterville, CA																		
MSA	74880	67235	56921	72449	21047	85648	68183	6752	3207	4968	1932	89691	6581	62087	128770	16247	7407	3113
Waco, TX MSA	49235	39703	34213	43013	15644	31939	54674	6629	3326	751	11164	17642	1155	60755	75016	14586	4770	2193
Washington, DC MDVAWV																		
PMSA	1091106	906591	631900	1195209	261937	491936	916889	335985	264235	155359	528402	227418	64171	1093388	1179367	426194	289682	184360
Waterbury, CT PMSA	24857	19896	15141	22373	8590	18855	26070	2973	1450	761	6494	10826	1350	27534	35368	8775	3422	857
WaterlooCedar Falls, IA MSA	30146	24538	21612	25772	9787	12663	36903	5156	2675	606	3202	952	744	47412	45424	9023	3603	1274
Wausau, WI MSA	27720	25201	15834	30419	8535	15895	35202	4201	1674	1207	135	420	479	48685	40399	11791	3742	1294
West Palm Beach Boca Raton, FL																		
MSA Wichita, KS MSA	276010 120894	222847 102079	113192 73961	239056 120667	138064 36908	138372 61186	281887 137095	63751 25529	35823 11041	8098 6110	63418 15899	75317 17126	11338 7841	349809 175167	356089 165802	91486 46620	43728 20294	36751 6991
Wichita Falls, TX MSA	29079	27281	23573	26622	9386	17856	35804	4889	2134	1302	5236	8390	1861	40769	49187	8564	2696	1167
Williamsport, PA																		
MSA Wilmington	28320	24258	14337	28933	10267	16200	35481	3466	1676	170	725	297	407	48750	44443	8910	3075	865
Newark, DEMD PMSA	117527	93970	67582	116647	34714	53278	121165	27929	16239	5973	37721	12827	3457	150821	140001	46358	25807	11679
Wilmington, NC MSA	56518	46681	30387	53519	21194	27765	62431	12919	5083	590	16371	3250	1784	79429	81545	17700	7647	4173
Worcester, MA CT PMSA	67379	53716	38572	63543	22423	35103	67482	14997	8954	5136	4185	12498	2865	96260	88602	24188	12337	4501
Yakima, WA MSA	46612	41620	32867	46086	13740	45757	45496	5297	2938	1408	512	37849	6593	51137	76552	13209	4689	1844
Yolo, CA PMSA	39494	32341	32513	35161	9322	21480	37358	8986	6912	8037	1327	21784	4251	42148	56102	11686	6368	3012
York, PA MSA	88048	74512	46277	92559	28134	51897	102266	13828	6647	1310	4540	5409	1723	144505	121063	35715	14158	4161
Youngstown Warren, OH MSA	139830	116307	73435	135140	52100	81364	169167	18149	8110	1274	24094	5489	3296	214775	210389	43698	18076	5688
Yuba City, CA	20024	25/20	10107	20212	0202	24500	22102	2400	1402	5000	1200	12007	2051	25720	46070	9202	2725	1270
MSA Yuma, AZ MSA	29924 34221	25629 30411	19187 23119	29212 29853	9392 13634	24588 34461	32183 34406	3490 2828	1492 1799	5022 494	1290 1209	12907 41612	3851 2309	35732 29310	46970 58595	8302 8006	3725 3084	1379 1136

References

- [1] Summary File 3: 2000 Census of Population and Housing: Technical Documentation, SF3/18 (RV), U.S. Census Bureau, July 2007. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.census.gov/prod/cen2000/doc/sf3.pdf
- [2] Public Use Microdata Sample: 2000 Census of Population and Housing: Technical Documentation, PUMS/15-US (RV), U.S. Census Bureau, December 2005. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.census.gov/prod/cen2000/doc/pums.pdf
- [3] U.S. Census Bureau, "About Metropolitan and Micropolitan Statistical Areas", June 07, 2005; http://www.census.gov/population/www/estimates/aboutmetro.html.
- [4] U.S. Census Bureau, "Metropolitan and Micropolitan Statistical Areas", April 04, 2007; http://www.census.gov/population/www/estimates/metroarea.html.
- [5] 1999 Metropolitan Area maps by State, U.S. Census Bureau. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.census.gov/geo/www/mapGallery/stma99.pdf
- [6] METROPOLITAN AREAS AND COMPONENTS, 1999, WITH FIPS CODES (Metropolitan areas defined by Office of Management and Budget, 6/30/99), Population Division, U.S. Census Bureau, Internet Release Date: July 1999, Last Revised: January 28, 2002. [text]. Available: http://www.census.gov/population/estimates/metro-city/99mfips.txt
- [7] *METROPOLITAN AREAS 1999 LISTS I-IV*, Attachments to OMB Bulletin No. 99-04, Statistical Policy Office, Office of Management and Budget, 1999. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.whitehouse.gov/omb/inforeg/msa99.pdf
- [8] State and Metropolitan Area Data Book 1997-98 (5th Edition), U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, 1998. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.census.gov/prod/3/98pubs/smadb-97.pdf
- [9] U.S. Census Bureau, "Metropolitan Areas Ranked by Population: 2000", June 21, 2007; http://www.census.gov/population/www/cen2000/phc-t3.html.
- [10] *Metropolitan Areas*, SB/94-9, U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, April 1994. [Adobe Systems Portable Document Format (PDF)]. Available: http://www.census.gov/apsd/www/statbrief/sb94_9.pdf
- [11] U.S. Census Bureau, "Census 2000 Public Use Microdata Areas (PUMAs)", February 07, 2005; http://www.census.gov/geo/puma/puma2000.html.
- [12] U.S. Census Bureau, "Census 2000 Public Use Microdata Area (PUMA) Maps", October 04, 2005; http://www.census.gov/geo/www/maps/puma5pct.htm.
- [13] U.S. Census Bureau, "Public Use Microdata Sample File (PUMS): 2000 PUMS Top Coded Values", October 17, 2007; http://www.census.gov/acs/www/Products/PUMS/C2SS/MinMaxVal.htm.
- [14] Hirshman, Brian & Martin, Michael & Carley, Kathleen. (2008). Modeling Information Access in Construct. *Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-CS-08-115.*http://www.casos.cs.cmu.edu/publications/papers/CMU-CS-08-115.pdf.