

2013

Add Health Wave III

Contextual Data

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**National Longitudinal Study of Adolescent Health
Wave III
Supplementary Tract-Level Database
Codebook**

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INTRODUCTION

This supplementary tract-level database further expands the extensive contextual database currently available to users of the National Longitudinal Study of Adolescent Health (Add Health) by the addition of several transportation and commuting measures including rural-urban commuting area codes and the extent of major roadways, climate descriptors, the presence of particular amenities, and state-level tobacco control influences. These variables, while occasionally similar in concept, remain distinct, at least in measurement, from other available Add Health contextual data. They offer a more complete description of the socio-economic and geographic characteristics of the environments in which Add Health respondents lived at Wave III. Most of the variables included in this contextual file measure context at the census tract-level; when variable peculiarities preclude measurement at the census tract-level, the variable is measured at the county- or state-level.

Documentation Structure

The documentation includes this INTRODUCTION, a SUBJECT INDEX, a DATA DICTIONARY listing the actual contextual variables available, a SOURCE INDEX describing the data sources used in the construction of this database, and a standard CODEBOOK reporting variable values and frequencies. When appropriate, the DATA DICTIONARY presents the formula employed in the construction of the contextual variable provided; these formulas are expressed in terms of the variables' names as they appear in their original sources. In some cases, where a mathematical formula does not apply, the dictionary substitutes an explanation of the variable. A final section, the SOURCE INDEX, describes in greater detail the sources and source variables used to derive the measures comprising this Add Health contextual database.

Data Form

The contextual data file contains one observation for each respondent in the Wave III Add Health survey. The first variable is the respondent identifier (the AID), which permits merging these contextual data with other Add Health data files. Except for AID, each variable is numeric. Variable order in the data reflects the order of presentation in the DATA DICTIONARY.

Variable Naming Conventions

With the exception of AID, all variables in the contextual data file adhere to the following nomenclature:

1st character – Summary level of the variable.

Refers to the geographic area to which the variable corresponds. Geographic levels include:

T = Tract

C = County

S = State

Tract refers to the census tract in which respondents were living at Wave III of Add Health. A census tract is

A small, relatively permanent statistical subdivision of a county delineated by a local committee of census data users for the purpose of presenting data....Designed to be relatively homogenous

units with respect to population characteristics, economic status, and living conditions at the time of establishment, census tracts average about 4,000 inhabitants. They may be split by any sub-county geographic entity¹.

One factor researchers must keep in mind when conducting longitudinal analyses is that administrative boundaries may have changed between 1990 and 2000. Thus, observed changes in variable values over time may be due, in part, to changes in these boundaries. The Wave III contextual file provides data based on 2000 census boundaries. The Wave I and II contextual databases provide data based on 1990 boundaries.

2nd and 3rd characters – Original data source.

The 2nd and 3rd characters are abbreviations denoting the original sources of data, or other secondary sources, from which the constructed variables were derived. Additional detail about these sources is available in the SOURCE INDEX. The sources and their abbreviations include:

CA Climate Atlas of the United States Disk 1

ER U.S. Department of Agriculture's Economics Research Service

IT ImpacTeen Tobacco Control Policy and Prevalence Data: 1991-2008

SF Census of Population and Housing, 2000: Summary File 3

DM Esri Data & Maps

4th and 5th characters – Year of data.

These digits refer to the year that the variable represents. The years 2000 and 2001 are denoted as 00 and 01, respectively. When a variable is based on a three-year average, the middle year is identified. For example, the tobacco control funding per capita, from the ImpacTeen data, is based on three-year (1999-2001) averages, and thus has "00" as the 4th and 5th characters. Years of data range from 1999 to 2002.

6th, 7th and 8th characters – Variable number.

The final three characters report the variable number within this Add Health database. Variable numbers range sequentially from 171 to 204. To minimize name redundancy with other Wave III Add Health contextual databases sharing similar nomenclature, numbering begins at 171 instead of 1.

Special Codes

Three missing data codes are used in Wave III contextual files. They are as follows:

Value	Reason for missing data
6 (or 96, 996, 9996)	Missing in the source data
7 (or 97, 997, 9997)	Legitimate skip, division by zero provides no basis for calculating
8 (or 98, 998, 9998)	Geocode missing

The replacement codes of 6, 96, etc. indicate that data were not available for that particular variable, year, and/or summary level from the original source data. Many of the variables in the contextual database are presented as proportions. In some cases, the denominator may be zero. In

these cases, the value of 7, 97, etc. indicates that data are missing for that particular variable due to division by zero. A value of 8, 98, etc. indicates that the geocode is missing for that respondent at Wave III.

All of the census data in the contextual database come from Summary File 3 (SF3) of the 2000 Census. SF3 provided data based on sample members within each geographic area who received the more detailed “long-form” questionnaires. For geographic areas with very small populations, these samples may be unstable. Researchers may make their own decisions about the stability of census estimates for geographic areas with small populations by using the tract-level “Total population” variable (TSF00001) located in Add Health’s Wave III contextual database, CONTEXT3.

SUBJECT INDEX

The SUBJECT INDEX lists all contextual variables available by broad subject areas. It includes a description of each measure, or range of measures, and a three-digit number (right column) that references the last three digits of the variable(s) name(s). That number may be used to find more details about the variable in the DATA DICTIONARY, which lists variables sequentially by these last three digits.

AMENITIES

See Education

See Resources

CLIMATE

Mean maximum daily temperatures	181
Mean minimum daily temperatures	182
Mean precipitation	183
Mean snowfall	184
Mean sunshine total hours.....	185
Mean number of days with temperature higher than 90° F.....	180
Mean number of days with temperature lower than 32° F	179

COMMUTING

See Transportation

EDUCATION

Educational Attainment

Proportion enrolled in pre-elementary and elementary education	171
Proportion enrolled in middle or high school education	172
Proportion enrolled in college, graduate or professional education	173

Educational Institutions

Total colleges within 1km of respondent	192
Total colleges within 3km of respondent	193
Total colleges within 5km of respondent	194
Total colleges, excluding community colleges, within 1km of respondent	195
Total colleges, excluding community colleges, within 3km of respondent	196
Total colleges, excluding community colleges, within 5km of respondent	197

RESOURCES

See Education

Parks

Total local park area within 500m of respondent	186
Total local park area within 1km of respondent	187

Points of Interest

Total points of interest within 1km of respondent	198
Total points of interest within 3km of respondent	199
Total points of interest within 5km of respondent	200

Shopping Centers

Total shopping centers within 1km of respondent	189
Total shopping centers within 3km of respondent	190
Total shopping centers within 5km of respondent	191

TOBACCO

State level tobacco control funding per capita	204
State level total cigarette tax per pack	203

TRANSPORTATION**Commuting**

Proportion using bicycle	176
Proportion using car, truck, or van	174
Proportion using public transportation (excluding taxicab)	175
Proportion using taxicab, motorcycle, or other means	178
Proportion walking	177
Rural Urban Commuting Area (RUCA) primary	202

Alternative Transportation

Number of ground transportation terminals in the county	201
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Roadways

Total miles of major roads within the tract	188
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DATA DICTIONARY

In the following table, the whole set of variables comprising the Wave III Supplementary Tract-Level database is listed; in the first section, all the variables generated from the Census 2000 Summary File 3 are presented, and in the second section, the variables generated from other sources are presented. The mathematical formula used in variable construction or a short variable description is also provided in the table.

Variable Name	Description	Formula
Enrolled to Formal Education System		
TSF00171	Proportion Population Enrolled in pre-elementary and Elementary education	$(\sum_{i=03,06,09,26,29,32} [P0360i])/P036001$
TSF00172	Proportion Population Enrolled in middle or high school education	$(\sum_{i=12,15,35,38} [P0360i])/P036001$
TSF00173	Proportion Population Enrolled in College, graduate or professional education	$(\sum_{i=18,21,41,44} [P0360i])/P036001$
Transportation to Work		
TSF00174	Proportion using Car, truck, or van	$P030002/P030001$
TSF00175	Proportion using Public transportation (excluding taxicab)	$(P030005-P030011)/P030001$
TSF00176	Proportion Bicycle	$P030013/P030001$
TSF00177	Proportion Walked	$P030014/P030001$
TSF00178	Proportion using Taxicab, motorcycle, or other means	$(\sum_{i=11,12,15} [P0300i])/P030001$
Climate Atlas of the United States Disk 1		

TCA00179	Mean Number of Days with Temperature < 32° F	Spatial join between Number of Days with Temperatures <= 32 layer and Census Tract layers
TCA00180	Mean Number of Days with Temperature > 90° F	Spatial join between Mean Number of Days with Temperatures >= 90 layer and Census Tracts Layer
TCA00181	Mean Maximum Daily Temperatures	Spatial join between Mean Daily Maximum Temperature layer and Census Tracts Layer
TCA00182	Mean Minimum Daily Temperatures	Spatial join between Mean Daily Maximum Temperature layer and Census Tracts Layer
TCA00183	Mean Precipitation	Spatial join between Mean Maximum Daily Precipitation layer and Census Tracts Layer
TCA00184	Mean Snowfalls	Spatial join between Mean Maximum Daily Snowfall layer and Census Tracts Layer
TCA00185	Mean Sunshine Total Hours	Spatial join between Mean Sunshine Total Hours layer and Census Tracts Layer
Esri Data & Maps Amenities		

TDM02186	Total Local Park Area of 500m Park buffers intersecting the tract. Area in square meters. Source: Esri Data & Maps 2004 Date of content: 2002	Spatial join between 500m Park buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.
TDM02187	Total Local Park Area of 1km Park buffers intersecting the tract. Area in square meters. Source: Esri Data & Maps 2004 Date of content: 2002	Spatial join between 1000m Park buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.
TDM02188	Total meters of major roads within the Tract Source: Esri Data & Maps 2004 Date of content: 2002	Spatial join between major roads and Census Tract polygons
TDM07189	Number of Shopping Center-centered 1km buffers intersecting the Tract Area centroid Source: Esri Data & Maps 9.3 Date of content: 2006, 2007	Spatial join between 3km Shopping Center-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.
TDM07190	Number of Shopping Center-centered 3 km buffers intersecting the Tract Area centroid Source: Esri Data & Maps 9.3 Date of content: 2006, 2007	Spatial join between 5km Shopping Center-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.
TDM07191	Number of Shopping Center-centered 5 km buffers intersecting the Tract Area centroid Source: Esri Data & Maps 9.3 Date of content: 2006, 2007	Spatial join between 1km Shopping Center-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.

TDM00192	<p>Number of College-centered 1km buffers intersecting the Tract Area centroid</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 3km college-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included the key words: University, College Institute of Technology, Institute of Arts, or College with community, junior, technical</p>
TDM00193	<p>Number of College-centered 3km buffers intersecting the Tract Area centroid</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 5km college-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included the key words: University, College Institute of Technology, Institute of Arts, or College with community, junior, or technical</p>

TDM00194	<p>Number of College-centered 5km buffers intersecting the Tract Area centroid</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 1km college-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included the key words: University, College Institute of Technology, Institute of Arts, or College with community, junior, or technical</p>
TDM00195	<p>Number of College-centered 1km buffers intersecting the Tract Area centroid (no community college)</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 3km college-centered buffers and Census Tract polygons (no community college). The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included key words: University, College (while excluding: community, junior, technical), Institute of Technology, Institute of Arts</p>

TDM00196	<p>Number of College-centered 3km buffers intersecting the Tract Area centroid (no community college)</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 5km college-centered buffers and Census Tract polygons (no community college). The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included key words: University, College (while excluding: community, junior, technical), Institute of Technology, Institute of Arts</p>

TDM00197	<p>Number of College-centered 5km buffers intersecting the Tract Area centroid (no community college)</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join Between 1km college-centered buffers and Census Tract polygons (no community college). The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p> <p>School's name included key words: University, College (while excluding: community, junior, technical), Institute of Technology, Institute of Arts</p>
TDM00198	<p>Number of Points of Interest-centered 1km buffers intersecting the Tract Area centroid²</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join between 3km Points of Interest-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p>
TDM00199	<p>Number of Points of Interest-centered 3km buffers intersecting the Tract Area centroid²</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join between 5km Points of Interest-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p>
TDM00200	<p>Number of Points of Interest-centered 5km buffers intersecting the Tract Area centroid²</p> <p>Source: Esri Data & Maps 2002</p> <p>Date of content: 2000</p>	<p>Spatial join between 1km Points of Interest-centered buffers and Census Tract polygons. The variable is the number of intersections where Census Tract polygon centroid belongs to the intersection.</p>

CDM07201	Number of Ground Transportation Terminals in the County Source: Esri Data & Maps 9.3 Date of content: 2006, 2007	Spatial join between Transportation terminals and County polygons. The variable is the number of ground transportation terminals in the County.
Rural Urban Commuting Area Codes		
TER00202	Rural-Urban Commuting Area Primary Codes, 2000	RUCA Primary Code 2000
ImpacTeen Tobacco Control Policy and Prevalence Data: 1991-2008		
SIT01203	State level Total cigarette tax per pack	State level Total cigarette tax per pack, 2001
SIT00204	State level Tobacco control funding per capita	State level Tobacco control funding per capita, average of years: 1999, 2000, 2001

SOURCE INDEX

This subsection describes each one of the sources used for the generation of the contextual variables comprising the data file; in the cases where it applies, a sub-directory of the variables used for the generation of the contextual information is presented; in other cases, an explanation about the generation of the variables is provided.

CA	Climate Atlas of the United States Disk 1
DM	Esri Data & Maps
ER	U.S. Department of Agriculture's Economics Research Service
IT	ImpacTeen Tobacco Control Policy and Prevalence Data: 1991-2008
SF	Census of Population and Housing, 2000: Summary File 3

CA Climate Atlas of the United States, version 2.0

The Climate Atlas of the United States Version 2.0 is an informational product containing a comprehensive compilation of climate information in the United States. The Atlas compiles data from a number of climate stations for the period 1961 to 1990. This source provides a series of GIS layered data for monthly and annual averages of climate characteristics for the specified timeframe, and these data show the spatial distribution of the climatic elements (a total of 2023 maps). Version 2.0 of the Climate Atlas of the United States was developed by National Oceanic and Atmospheric Administration's National Climatic Data Center. More information on the Climate Atlas can be found at the National Climatic Data Center's website: <http://www.ncdc.noaa.gov/oa/about/cdrom/climatls2/info/atlasad.html>

A total of seven variables in this data file were generated using the information in the Climate Atlas of the United States. Climate data interpolated between monitoring station locations were attached to Add Health respondent tract centroids. The variables comprising the Climate Atlas are described by categorical variables denoting various ranges of values that measure the climatic characteristics of interest. The median value of these ranges allowed for the calculation of the averages used in the creation of variables included in this Add Health contextual database.

The layers used from the Climate Atlas follow:

Source Variable Name			Description
Lower48	Alaska	Hawaii	
TEMP02A	AKTMP02A	HITMP02A	Mean Daily Maximum Temperature
TEMP02B	AKTMP02B	HITMP02B	Mean Daily Minimum Temperature
TEMP10	AKTEMP10	HITEMP10	Mean Number of Days with Temperatures >=90 Degrees F (70 F for AK)
TEMP11	AKTEMP11	HITEMP11	Mean Number of Days with Temperatures <=32 Degrees F
PREC01	AKPREC01	HIPREC01	Mean Total Precipitation
SNOW14	AKSNOW14	(none)	Mean Total Snowfall
SUN53	AKSUN53	HISUN53	Mean Sunshine Total Hours

DM Esri Data & Maps

A total of 16 variables in Add Health's Wave III Supplementary Tract-Level Database were generated using Esri Data & Maps data from the Environmental Systems Research Institute (Esri) in Redlands, CA. The Data & Maps files are a compilation of GIS databases compatible with ArcGIS software. They provide a set of GIS layers on roadways and streets, along with a vast amount of information on other features and themes, such as landmarks, parks, water bodies, and recreational facilities. Variables constructed for this Add Health contextual file originated from three different versions of Esri data: Data & Maps 2002, Data & Maps 2004, and Data & Maps 9.3. The criteria used to select these sources were: the correspondence of the Esri layers' date of content with the timeframe of the Add Health Wave III interview and the data's estimated completeness. Concerns regarding the completeness of certain layers temporally proximate to the Wave III collection period necessitated use of the more extensive Data & Maps 9.3, with its 2006 to 2007 date of content. Consult the DATA DICTIONARY for specifics.

Typically, the variables created using the Data & Maps' layers describe the availability (density) of a set of amenities within a particular distance of the Add Health respondent's Wave III census tract centroid. The following method roughly describes the process employed to generate the amenity density variables. From the amenity layer, buffers of different radial distances, usually 1 kilometer, 3 kilometers, and 5 kilometers, around amenity locations are established. Once a temporal layer with all the amenity buffers for the period of interest is created, the layer is spatially joined with the census tract layer. An index of the availability of the amenity is determined from the number of intersections between the census tract area and the amenity buffers. Only intersections in which the centroid of the census tract falls within the amenity's buffer count toward the total; buffers not encompassing the tract centroid remain excluded. However, unlike other measures of amenity density, the measure of Ground Transportation Terminals reports the total number of terminals within respondents' counties. Reporting transportation terminals in a respondent's county, rather than tract, provides a broader description of the transportation infrastructure available in the area in which respondents commute most frequently. A specific definition of each variable can be found in the DATA DICTIONARY.

ER U.S. Department of Agriculture's Economics Research Service

RUCAs, Rural-Urban Commuting Area Codes provide a characterization of a census tract in regards to its rural and urban status and commuting patterns. This characterization is made by using measures of population density, urbanization, and daily commuting. This contextual file incorporates the RUCA codes used by the 2000 decennial census. Since other Add Health data provide the more precise secondary flow codes, this file only reports the primary flow categories. The measure is provided by the Economics Research Service of the United States Department of Agriculture. For additional information, please visit the following website: <http://www.ers.usda.gov/data-products/rural-urban-commuting-area-codes.aspx>. The table below provides a complete list of RUCA codes and their corresponding definitions:

RUCA Data Code Definitions (2000) ³	
1	Metropolitan area core: primary flow within an Urbanized Area (UA)
2	Metropolitan area high commuting: primary flow 30% or more to a UA
3	Metropolitan area low commuting: primary flow 10% to 30% to a UA
4	Micropolitan area core: primary flow within an Urban Cluster (UC) of 10,000 through 49,999 (large UC)
5	Micropolitan high commuting: primary flow 30% or more to a large UC
6	Micropolitan low commuting: primary flow 10% to 30% to a large UC
7	Small town core: primary flow within an Urban Cluster of 2,500 through 9,999 (small UC)
8	Small town high commuting: primary flow 30% or more to a small UC
9	Small town low commuting: primary flow 10% through 29% to a small UC
10	Rural areas: primary flow to a tract outside a UA or UC (including self)

IT ImpacTeen Tobacco Control Policy and Prevalence Data: 1991-2008

ImpacTeen is an interdisciplinary consortium of substance abuse experts in economics, etiology, epidemiology, law, political science, public policy, psychology, and sociology. This project is funded by the Robert Wood Johnson Foundation and builds upon efforts supported by the National Science Foundation under Grant No. 0751476.

The data and codebook were compiled by researchers in the Department of Health Behavior at the University at Buffalo, in the State University of New York. Work on this project was initiated at the Roswell Park Cancer Institute (RPCI) in Buffalo, New York, and completed in conjunction with researchers at the MayaTech Corporation in Washington, DC. Researchers at MayaTech are legislative policy specialists⁴.

The Tobacco Control Policy and Prevalence Data provide a compilation of information regarding state-level tobacco control policies. The main topic areas of the database cover: (1) prices, taxes and funding of anti-tobacco policies and campaigns, (2) legal framework of youth access to tobacco consumption, (3) smoke-free air laws, and (4) smoke-free air preemption.¹ This Add Health contextual file contains two variables generated from these data, as specified below:

Total cigarette tax per pack	Average state excise tax and federal tax (in dollars) for the year per cigarette pack (2001).
Tobacco control funding per capita	The total amount of state tobacco control program funding dollars per year, calculated per capita based on state population (average of 1999, 2000, 2001).

SF 2000 Census of Population and Housing, Summary File 3

The Summary File 3 (SF3) contains sample data compiled from the decennial Census' long-form questionnaire completed by about 1 in 6 households. The Summary File 3 comprises detailed information on a variety of topics including: demographic and socio-economic characteristics of the population, households and families, educational enrollment, means of commute, and many others. For additional detail and technical documentation please consult the following: <http://www.census.gov/prod/cen2000/doc/sf3.pdf>. These 2000 Census data were downloaded via the U.S. Census Bureau's DataFerrett (U.S. Census Bureau, DataFerrett, Census of Population and Housing, 2000 selected subsets from Summary File). For more information, visit: <http://dataferrett.census.gov/>.

Although the Wave III database contains only data from the 2000 Census, a comparison between these data and Census data from previous or subsequent years may interest researchers. However, changes in the way the 2000 Census was conducted or processed affect its comparability with other Census data that appear in Add Health. For example, 2000 boundaries may differ from those defining 1990 tracts, while they will remain constant with those used in the 2009 ACS, 5-year data. Furthermore, response categories describing "means of transportation to work" differ between the 2009 ACS and earlier decennial Census releases. Unlike the 2000 Census, the ACS now excludes taxicabs in its "public transportation category." Instead, the ACS includes this form of transportation in the category, "taxicab, motorcycle, bicycle or other means." As for educational enrollment, any time since February 1, 2000 serves as the reference period in the Census 2000, while the ACS uses a 3 month period preceding the date of interview. For additional information, consult the various resources provided by the U.S. Census Bureau⁵.

A list of the variables from the 2000 Census Summary File 3 used to generate this contextual data appears in the following table:

Source Variable Name	Description
P030001	Total population of Workers 16 years and over
P030002	Car, truck, or van
P030003	Car, truck, or van, Drove alone
P030004	Car, truck, or van, Carpooled
P030005	Public transportation
P030006	Public transportation, Bus or trolley bus
P030007	Public transportation, Streetcar or trolley car
P030008	Public transportation, Subway or elevated
P030009	Public transportation, Railroad
P030010	Public transportation, Ferryboat
P030011	Public transportation, Taxicab
P030012	Motorcycle
P030013	Bicycle
P030014	Walked
P030015	Other means

P030016	Worked at home
P036001	Total Population 3 years and over
P036002	Total Male Population
P036003	Male, Enrolled in nursery school, preschool
P036004	Male, Enrolled in nursery school, preschool, Public school
P036005	Male, Enrolled in nursery school, preschool, Private school
P036006	Male, Enrolled in kindergarten
P036007	Male, Enrolled in kindergarten, Public school
P036008	Male, Enrolled in kindergarten, Private school
P036009	Male, Enrolled in grade 1 to grade 4
P036010	Male, Enrolled in grade 1 to grade 4, Public school
P036011	Male, Enrolled in grade 1 to grade 4, Private school
P036012	Male, Enrolled in grade 5 to grade 8
P036013	Male, Enrolled in grade 5 to grade 8, Public school
P036014	Male, Enrolled in grade 5 to grade 8, Private school
P036015	Male, Enrolled in grade 9 to grade 12
P036016	Male, Enrolled in grade 9 to grade 12, Public school
P036017	Male, Enrolled in grade 9 to grade 12, Private school
P036018	Male, Enrolled in college, undergraduate years
P036019	Male, Enrolled in college, undergraduate years, Public school
P036020	Male, Enrolled in college, undergraduate years, Private school
P036021	Male, Enrolled in graduate or professional school
P036022	Male, Enrolled in graduate or professional school, Public school
P036023	Male, Enrolled in graduate or professional school, Private school
P036024	Male, Not enrolled in school
P036025	Female
P036026	Female, Enrolled in nursery school, preschool
P036027	Female, Enrolled in nursery school, preschool, Public school
P036028	Female, Enrolled in nursery school, preschool, Private school
P036029	Female, Enrolled in kindergarten
P036030	Female, Enrolled in kindergarten, Public school
P036031	Female, Enrolled in kindergarten, Private school
P036032	Female, Enrolled in grade 1 to grade 4
P036033	Female, Enrolled in grade 1 to grade 4, Public school
P036034	Female, Enrolled in grade 1 to grade 4, Private school
P036035	Female, Enrolled in grade 5 to grade 8
P036036	Female, Enrolled in grade 5 to grade 8, Public school
P036037	Female, Enrolled in grade 5 to grade 8, Private school
P036038	Female, Enrolled in grade 9 to grade 12
P036039	Female, Enrolled in grade 9 to grade 12, Public school
P036040	Female, Enrolled in grade 9 to grade 12, Private school
P036041	Female, Enrolled in college, undergraduate years
P036042	Female, Enrolled in college, undergraduate years, Public school
P036043	Female, Enrolled in college, undergraduate years, Private school

P036044	Female, Enrolled in graduate or professional school
P036045	Female, Enrolled in graduate or professional school, Public school
P036046	Female, Enrolled in graduate or professional school, Private school
P036047	Female, Not enrolled in school

Notes

U.S. Bureau of the Census, American Factfinder Glossary,
http://factfinder.census.gov/home/saff/main.html?_lang=en

Points of interest consist of features categorized by Esri's Feature Class Code (FCC) subset of recreational amenities designated as D92. For example, points of interest may include museums, theaters, aquariums, planetariums, cultural centers, and remarkable buildings.

UA and UC refer to Urbanized Area and Urban Cluster, respectively.

ImpactTeen (n.d.). Tobacco Control Policy and Prevalence Data: 1991-2008. Retrieved from
<http://www.impactteen.org/tobaccodata.htm>

U.S. Census Bureau (2013, February 1). Comparing 2009 American Community Survey Data. Retrieved from http://www.census.gov/acs/www/guidance_for_data_users/comparing_2009/ and

http://www.census.gov/acs/www/Downloads/comparing_acs_data/table_comparisons_10.pdf

Wave III: Supplementary Tract-Level Database

Number of observations: 15,197

AID		Char	Respondent identifier NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0%	10316654	
1	0%	10316952	
1	0%	10506342	
1	0%	10570810	
1	0%	10606128	
15187	100%	Values omitted	NOTE: Range of values omitted from display
1	0%	99886993	
1	0%	99886994	
1	0%	99886995	
1	0%	99886996	
1	0%	99886999	

TSF00171		Num	Proportion Population Enrolled in pre-elementary and Elementary education NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
57	0%	0	0
1	0%	0.0007704161	.0007704160525464
1	0%	0.0008654797	.0008654796984047

1	0%	0.0008871803	.0008871802710928
1	0%	0.0009424330	.0009424330201
14823	98%	.0009754738-.214820981	NOTE: Range of values omitted from display
1	0%	0.2215064466	.2215064465999603
2	0%	0.2327351868	.2327351868152618
1	0%	0.2366320789	.2366320788860321
1	0%	0.2460753471	.2460753470659256
308	2%	8	geocode missing

TSF00172		Num	Proportion Population Enrolled in middle or high school education NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
44	0%	0	0
1	0%	0.0005318206	.0005318205803633
2	0%	0.0013398839	.0013398838927969
3	0%	0.0014108964	.0014108964242041
2	0%	0.0014132278	.001413227757439
14833	98%	.0014635931-.2491496652	NOTE: Range of values omitted from display
1	0%	0.2526661158	.2526661157608032
1	0%	0.2743328214	.2743328213691711
1	0%	0.3356164396	.3356164395809174
1	0%	0.3660521805	.3660521805286408
308	2%	8	geocode missing

TSF00173		Num	Proportion Population Enrolled in College, graduate or professional education NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
4	0%	0	0
5	0%	0.0056355665	.0056355665437877
1	0%	0.0058823531	.0058823530562222
5	0%	0.0063583814	.0063583813607693
1	0%	0.0075497599	.0075497599318624
14865	98%	.007980356- .9938176274	NOTE: Range of values omitted from display
1	0%	0.9943454862	.994345486164093
1	0%	0.9954984188	.9954984188079834
2	0%	0.9972426295	.9972426295280457
4	0%	0.9978980422	.9978980422019959
308	2%	8	geocode missing

TSF00174		Num	Proportion using Car, truck, or van NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0%	0	0
1	0%	0.0246913582	.0246913582086563
2	0%	0.0339879170	.0339879170060158
2	0%	0.0378524512	.0378524512052536
2	0%	0.0399027765	.0399027764797211
14869	98%	.0418204181- .9928628206000001	NOTE: Range of values omitted from display

3	0%	0.9937402010	.9937402009963989
2	0%	0.9937694669	.9937694668769836
2	0%	0.9959037304	.9959037303924561
5	0%	1	1
308	2%	8	geocode missing

TSF00175		Num	Proportion using Public transportation (excluding taxicab) NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2728	18%	0	0
2	0%	0.0003081664	.0003081664035562
1	0%	0.0003553660	.0003553660353646
1	0%	0.0004580852	.0004580852109939
1	0%	0.0004752852	.0004752851673402
12152	80%	.0004766444-.7435897589	NOTE: Range of values omitted from display
1	0%	0.7475082874	.7475082874298096
1	0%	0.7678942084	.7678942084312439
1	0%	0.7712743878	.7712743878364563
1	0%	0.7802835107	.780283510684967
308	2%	8	geocode missing

TSF00176		Num	Proportion Bicycle NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
7915	52%	0	0

2	0%	0.0001635056	.0001635055523366
1	0%	0.0002590338	.0002590338117443
1	0%	0.0002614721	.0002614721015561
2	0%	0.0003809524	.0003809523768723
6963	46%	.0004027386- .2441968471	NOTE: Range of values omitted from display
1	0%	0.2716966271	.2716966271400452
1	0%	0.2771084309	.2771084308624268
2	0%	0.3728813529	.3728813529014587
1	0%	0.5427277684	.5427277684211731
308	2%	8	geocode missing

TSF00177		Num	Proportion Walked NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1023	7%	0	0
3	0%	0.0004566210	.0004566209972836
5	0%	0.0006153846	.0006153846043162
44	0%	0.0006387735	.0006387735484168
1	0%	0.0006475845	.0006475845002569
13808	91%	.0009013069- .7729468346	NOTE: Range of values omitted from display
1	0%	0.7777777910	.7777777910232544
1	0%	0.7778249979	.7778249979019165
2	0%	0.7837423086	.7837423086166382
1	0%	0.7852956653	.7852956652641296

308	2%	8	geocode missing
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TSF00178		Num	Proportion using Taxicab, motorcycle, or other means NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2191	14%	0	0
1	0%	0.0003529827	.0003529826935846
1	0%	0.0005260389	.0005260389298201
1	0%	0.0005622716	.0005622715689242
1	0%	0.0006025911	.000602591142524
12685	83%	.0006042296- .1142578125	NOTE: Range of values omitted from display
4	0%	0.1175572500	.1175572499632835
2	0%	0.1214649975	.1214649975299835
2	0%	0.1277258545	.1277258545160294
1	0%	0.1297577918	.1297577917575836
308	2%	8	geocode missing

TCA00179		Num	Mean Number of Days with Temperature < 32° F NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1953	13%	0	0
123	1%	8	8
2010	13%	15	15
1	0%	23	23
234	2%	30	30
10540	69%	32-210	NOTE: Range of values omitted from display

1	0%	220	220
24	0%	226	226
1	0%	233	233
2	0%	240	240
308	2%	998	geocode missing

TCA00180		Num	Mean Number of Days with Temperature > 90° F NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
14	0%	0	0
44	0%	2	2
15	0%	3	3
100	1%	4	4
7	0%	5	5
14348	94%	6-131	NOTE: Range of values omitted from display
139	1%	135	135
33	0%	143	143
3	0%	146	146
186	1%	151	151
308	2%	998	geocode missing

TCA00181		Num	Mean Maximum Daily Temperatures NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
3	0%	38	38
1	0%	40.5	40.5

1	0%	43	43
10	0%	45	45
3	0%	48.3	48.3
13923	92%	50-80.5	NOTE: Range of values omitted from display
1	0%	81.3	81.3
810	5%	83	83
3	0%	84.5	84.5
134	1%	86	86
308	2%	98	geocode missing

TCA00182		Num	Mean Minimum Daily Temperatures NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2	0%	15.5	15.5
1	0%	20	20
11	0%	22.5	22.5
237	2%	26	26
2	0%	29	29
13974	92%	31-64	NOTE: Range of values omitted from display
552	4%	65	65
30	0%	66	66
79	1%	68	68
1	0%	71	71
308	2%	98	geocode missing

TCA00183		Num	Mean Precipitation
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			NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
218	1%	4	4
1	0%	6	6
11	0%	6.5	6.5
1	0%	7.33	7.33
1	0%	7.75	7.75
14623	96%	8.38-96.5	NOTE: Range of values omitted from display
3	0%	100	100
23	0%	120	120
2	0%	130	130
6	0%	140	140
308	2%	998	geocode missing

TCA00184		Num	Mean Snowfalls NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
3734	25%	0	0
1	0%	0.7	.7
362	2%	1	1
3	0%	1.3	1.3
2736	18%	2	2
7716	51%	2.8-68.7	NOTE: Range of values omitted from display
333	2%	73	73
2	0%	76	76

1	0%	100	100
1	0%	108	108
308	2%	998	geocode missing

TCA00185		Num	Mean Sunshine Total Hours NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
7	0%	1817	1817
1	0%	1999	1999
4	0%	2049	2049
5	0%	2061	2061
83	1%	2100	2100
11655	77%	2200-3200	NOTE: Range of values omitted from display
526	3%	3300	3300
21	0%	3350	3350
2545	17%	3401	3401
42	0%	9996	missing in source
308	2%	9998	geocode missing

TDM02186		Num	Total Local Park Area of 500m Park buffers intersecting the tract. Area in square meters. NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
5737	38%	0	0
1	0%	1672.02	1672.02
1	0%	2235.03	2235.03

1	0%	2403.1	2403.1
1	0%	2657.72	2657.72
9141	60%	2811.38-53336183.84	NOTE: Range of values omitted from display
2	0%	63064696.4399999980	63064696.44
2	0%	65466402.75	65466402.75
2	0%	70711833	70711833
1	0%	90826542.0199999960	90826542.02
308	2%	99999998	geocode missing

TDM02187		Num	Total Local Park Area of 1km Park buffers intersecting the tract. Area in square meters. NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
4950	33%	0	0
1	0%	2403.1	2403.1
1	0%	3668.8	3668.8
1	0%	4310.93	4310.93
1	0%	5439.24	5439.24
9928	65%	5567.57-53373021.52	NOTE: Range of values omitted from display
2	0%	63064696.4399999980	63064696.44
2	0%	65466402.75	65466402.75
2	0%	70711833	70711833
1	0%	90826542.0199999960	90826542.02
308	2%	99999998	geocode missing

TDM02188		Num	Total meters of major roads within the Tract NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
49	0%	0	0
1	0%	6	6
1	0%	10	10
1	0%	15	15
2	0%	20	20
14831	98%	25-377550	NOTE: Range of values omitted from display
1	0%	417900	417900
1	0%	458000	458000
1	0%	545000	545000
1	0%	604000	604000
308	2%	999998	geocode missing

TDM07189		Num	Number of Shopping Center-centered 1km buffers intersecting the Tract Area centroid
Frequency	Percent	Value	Label
12973	85%	0	0
1768	12%	1	1
118	1%	2	2
27	0%	3	3
2	0%	4	4
1	0%	5	5
308	2%	98	geocode missing

TDM07190		Num	Number of Shopping Center-centered 3 km buffers intersecting the Tract Area centroid
Frequency	Percent	Value	Label
9206	61%	0	0
3663	24%	1	1
969	6%	2	2
612	4%	3	3
263	2%	4	4
96	1%	5	5
40	0%	6	6
22	0%	7	7
8	0%	8	8
5	0%	9	9
4	0%	10	10
1	0%	11	11
308	2%	98	geocode missing

TDM07191		Num	Number of Shopping Center-centered 5 km buffers intersecting the Tract Area centroid
Frequency	Percent	Value	Label
6360	42%	0	0
3820	25%	1	1
1534	10%	2	2
1263	8%	3	3
899	6%	4	4
410	3%	5	5

222	1%	6	6
135	1%	7	7
93	1%	8	8
82	1%	9	9
26	0%	10	10
8	0%	11	11
8	0%	12	12
5	0%	13	13
9	0%	14	14
6	0%	15	15
4	0%	16	16
2	0%	17	17
3	0%	18	18
308	2%	98	geocode missing

TDM00192		Num	Number of College-centered 1km buffers intersecting the Tract Area centroid
Frequency	Percent	Value	Label
13255	87%	0	0
1427	9%	1	1
173	1%	2	2
12	0%	3	3
14	0%	4	4
3	0%	5	5
2	0%	6	6

1	0%	7	7
2	0%	9	9
308	2%	98	geocode missing

TDM00193		Num	Number of College-centered 3km buffers intersecting the Tract Area centroid NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
10341	68%	0	0
2681	18%	1	1
853	6%	2	2
540	4%	3	3
213	1%	4	4
256	2%	5-37	NOTE: Range of values omitted from display
1	0%	39	39
1	0%	40	40
1	0%	41	41
2	0%	44	44
308	2%	98	geocode missing

TDM00194		Num	Number of College-centered 5km buffers intersecting the Tract Area centroid NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
7666	50%	0	0
3271	22%	1	1
1852	12%	2	2

658	4%	3	3
491	3%	4	4
941	6%	5-50	NOTE: Range of values omitted from display
1	0%	51	51
5	0%	53	53
1	0%	55	55
3	0%	56	56
308	2%	98	geocode missing

TDM00195		Num	Number of College-centered 1km buffers intersecting the Tract Area centroid (no community college)
Frequency	Percent	Value	Label
13460	89%	0	0
1285	8%	1	1
110	1%	2	2
12	0%	3	3
14	0%	4	4
4	0%	5	5
1	0%	6	6
1	0%	7	7
2	0%	9	9
308	2%	98	geocode missing

TDM00196		Num	Number of College-centered 3km buffers intersecting the Tract Area centroid (no community college) NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label

10722	71%	0	0
2600	17%	1	1
927	6%	2	2
306	2%	3	3
129	1%	4	4
200	1%	5-35	NOTE: Range of values omitted from display
1	0%	36	36
1	0%	37	37
1	0%	38	38
2	0%	41	41
308	2%	98	geocode missing

TDM00197		Num	Number of colleges-centered 5km buffers encompassing the tract area centroid (no community college) NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
8250	54%	0	0
3262	21%	1	1
1779	12%	2	2
506	3%	3	3
355	2%	4	4
723	5%	5-43	NOTE: Range of values omitted from display
4	0%	46	46
3	0%	47	47
4	0%	48	48
3	0%	50	50

308	2%	98	geocode missing
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TDM00198		Num	Number of points of interest-centered 1km buffers intersecting the tract area centroid
Frequency	Percent	Value	Label
14071	93%	0	0
555	4%	1	1
107	1%	2	2
75	0%	3	3
20	0%	4	4
21	0%	5	5
7	0%	6	6
11	0%	7	7
4	0%	8	8
3	0%	9	9
3	0%	10	10
3	0%	11	11
1	0%	12	12
1	0%	14	14
2	0%	16	16
2	0%	17	17
2	0%	21	21
1	0%	36	36
308	2%	98	geocode missing

TDM00199		Num	Number of points of interest-centered 3km buffers
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			intersecting the tract area centroid NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
12301	81%	0	0
1213	8%	1	1
459	3%	2	2
288	2%	3	3
89	1%	4	4
527	3%	5-55	NOTE: Range of values omitted from display
1	0%	56	56
5	0%	60	60
1	0%	61	61
5	0%	62	62
308	2%	98	geocode missing

TDM00200		Num	Number of points of interest-centered 5km buffers intersecting the tract area centroid NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
10261	68%	0	0
1929	13%	1	1
780	5%	2	2
398	3%	3	3
220	1%	4	4
1288	8%	5-73	NOTE: Range of values omitted from display
2	0%	74	74

1	0%	75	75
4	0%	78	78
6	0%	79	79
308	2%	98	geocode missing

CDM07201		Num	Number of ground transportation terminals in the county NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2885	19%	0	0
3312	22%	1	1
2232	15%	2	2
874	6%	3	3
197	1%	4	4
4738	31%	5-45	NOTE: Range of values omitted from display
173	1%	50	50
1	0%	55	55
14	0%	60	60
463	3%	95	95
308	2%	998	geocode missing

TER00202		Char	RUCA primary code 2000
Frequency	Percent	Value	Label
11296	74%	1	Metropolitan area core: primary flow within an Urbanized Area (UA)
911	6%	2	Metropolitan area high commuting: primary flow 30% or more to a UA
93	1%	3	Metropolitan area low commuting: primary flow 10% to 30%

			to a UA
1097	7%	4	Micropolitan area core: primary flow within an Urban Cluster (UC) of 10,000 through 49,999 (large UC)
248	2%	5	Micropolitan high commuting: primary flow 30% or more to a large UC
45	0%	6	Micropolitan low commuting: primary flow 10% to 30% to a large UC
337	2%	7	Small town core: primary flow within an Urban Cluster of 2,500 through 9,999 (small UC)
164	1%	8	Small town high commuting: primary flow 30% or more to a small UC
164	1%	9	Small town low commuting: primary flow 10% through 29% to a small UC
534	4%	10	Rural areas: primary flow to a tract outside a UA or UC (including self)
308	2%	98	geocode missing

SIT01203		Num	State level total cigarette tax per pack in cents NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
576	4%	37.5	37.5
861	6%	40	40
207	1%	45	45
105	1%	47.5	47.5
1100	7%	50	50
6877	45%	52.5-92.5	NOTE: Range of values omitted from display
442	3%	100	100
767	5%	110	110

407	3%	120	120
3547	23%	130	130
308	2%	998	geocode missing

SIT00204		Num	State level tobacco control funding per capita (average 3 years) in cents NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
358	2%	10.27	10.27
500	3%	15.8	15.8
262	2%	19.43	19.43
395	3%	23.37	23.37
105	1%	23.73	23.73
12385	81%	27.91-360.58	NOTE: Range of values omitted from display
10	0%	479.97	479.97
56	0%	566.01	566.01
210	1%	686.26	686.26
608	4%	687.5	687.5
308	2%	998	geocode missing