

Documentation for

USDA Food Environment and Access

Version 2.0, released May 2020

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This analysis uses data or information from the Contextual Data Resource (CDR): United States Department of Agriculture Food Environment Atlas by State and County and Food Access Research Atlas by Census Tract, 2000–2016, Version 2.0 as of February 2020, developed by the USC/UCLA Center on Biodemography and Population Health. The development of the CDR was funded by the National Institute on Aging (R21 AG045625, P30 AG017625). For more information, please refer to <https://hrs.isr.umich.edu/data-products/restricted-data/available-products>.

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Data Sources

Economic Research Service (ERS), U.S. Department of Agriculture (USDA). Food Environment Atlas. <https://www.ers.usda.gov/data-products/food-environment-atlas/>
Economic Research Service (ERS), U.S. Department of Agriculture (USDA). Food Access Research Atlas, <https://www.ers.usda.gov/data-products/food-access-research-atlas/>

Version Note

Version 2.0 updates the data with the most recent 2018 version of the data provided by the USDA, which adds access and proximity to grocery store measures for 2015, store availability measures for 2009 and 2014, restaurant availability measures for 2009 and 2014, state food insecurity measures for 2010–2012 and 2013–2015, local foods measures for 2012 and 2016, health measures for 2008 and 2013, physical activity measures for 2009 and 2014, and income level measures for 2010 and 2015. Version 2.0 also includes information on food access among SNAP household and race/ethnic groups, restaurant expenditures, food assistance, food prices and taxes, and additional socioeconomic characteristics. Please note that variable names may be different from the previous version of the data.

Linking CDR Data with HRS Respondent Data

The Contextual Data Resource is designed to be linked with the Health and Retirement Study Cross-Wave Geographic Information (Detail) file, which is available as restricted data. See <https://hrs.isr.umich.edu/data-products/restricted-data> for more information about accessing the HRS restricted data. All geographic identifiers are in string format, and match the geographic identifiers in the HRS Cross-Wave Geographic Information (Detail) file.

- To link state level data, merge using the STFIPS10 geographic identifier, which is the 2-digit state FIPS code.
- To link county level data, merge using the 5-digit STCTYFIPS10 geographic identifier, which is the 2-digit state + 3-digit county FIPS code.
- To link census tract level data, merge using the 11-digit LINKCEN2010 geographic identifier, which is the 2-digit state + 3-digit county + 6-digit census tract FIPS code.

Note on HRS Cross-Wave Geographic Information File

Respondent locations are carried forward to the next wave and they appear for waves in which the interview may not have occurred. xIWTYPE in the Tracker file indicates whether someone was actually interviewed in that wave, in which case, the location would have been confirmed. If users want to limit analyses to waves in which the R was interviewed, keep waves of observations where xIWTYPE = 1. In summary, a location appearing on a given line does not indicate that an interview took place in that wave; it is simply the location that was on record at the time.

Dataset Overview

The USDA dataset is derived from two data files: Food Environment Atlas and Food Access Research Atlas. The Food Environment Atlas' stated objectives are to (1) assemble statistics on food environment indicators to stimulate research on the determinants of food choices and diet quality; and (2) to provide a spatial overview of a community's ability to access healthy food and its success in doing so. The Food Access Research Atlas is meant to (1) present a spatial overview of food access indicators for low-income and other census tracts using different measures of supermarket accessibility; (2) provide food access data for populations within census tracts; and (3) offer census-tract-level data on food access that can be downloaded for community planning or research purposes.

Data Summary

Dataset Name: USDA Food and County Data

Data Source: U.S. Department of Agriculture (USDA)

Data Source URLs: <https://www.ers.usda.gov/data-products/food-environment-atlas/>
<https://www.ers.usda.gov/data-products/food-access-research-atlas/>

Data Collection Method: Combination of primary data collected by the USDA and secondary data from Census and other government sources

Units of Observation and Sample: State, County, and Census Tract; population

Years Collected: Varies, ranging from 2000 to 2015

Geographic Level of Collection: State, County, and Census Tract

Years Available

While all USDA data is available on an annualized basis, each of the three constituent data sets are available for different periods. The Food Access Research Atlas data is available for 2010. County Typology data are available for 2004 and 2013. The Food Environment Atlas data are available for different years/periods by category, as shown in Table 1 below.

Table 1. Availability for Food Environment Atlas Data by Category

Category	Years Available
Access and Proximity to Grocery Store	2010, 2015, 2010-15
Store Availability	2007, 2009, 2012, 2014, 2016, 2007-12, 2009-14, 2012-16
Restaurant Availability and Expenditures	2007, 2009, 2012, 2014
Food Assistance	2009, 2012, 2015, 2016, 2009-15, 2012-16
State Food Insecurity	2000-02, 2007-09, 2010-12, 2013-15
Food Prices and Taxes	2010, 2014
Local Foods	2007, 2009, 2012, 2013, 2016, 2007-12, 2009-13, 2009-16
Health and Physical Activities	2007, 2008, 2009, 2010, 2012, 2013, 2014, 2007-12, 2009-14
Socioeconomic Characteristics	2000, 2010, 2015

Geography

The Food Environment Atlas is available at the county level, with the exception of food insecurity data within the Food Environment Atlas, which is available at the state level only. The Food Access Research Atlas is available at the census tract level.

Glossary

The following definitions are taken from the USDA’s Food Access Research Atlas Documentation (<https://www.ers.usda.gov/data-products/food-access-research-atlas/documentation/>)

Food Access Research Atlas Definitions

Food access

Limited access to supermarkets, supercenters, grocery stores, or other sources of healthy and affordable food retailers may make it harder for some Americans to eat a healthy diet. There are many ways to measure food store access for individuals and for neighborhoods, and many ways to define which areas are food deserts—neighborhoods that lack healthy food sources. Most measures and definitions take into account at least some of the following indicators of access:

- Accessibility to sources of healthy food, as measured by distance to a store or by the number of stores in an area.

- Individual-level resources that may affect accessibility, such as family income or vehicle availability.
- Neighborhood-level indicators of resources, such as the average income of the neighborhood and the availability of public transportation.

In the Food Access Research Atlas, several indicators are available to measure food access along these dimensions. For example, users can choose alternative distance markers to measure low access in a neighborhood, such as the number and share of people more than half a mile to a supermarket or 1 mile to a supermarket. Users can also view other census-tract-level characteristics that provide context on food access in neighborhoods, such as whether the tract has a high percentage of households far from supermarkets and without vehicles, individuals with low income, or people residing in group quarters.

Low-income neighborhoods

The criteria for identifying a census tract as low-income are from the Department of Treasury's New Markets Tax Credit (NMTC) program. This program defines a low-income census tract as any tract where:

- The tract's poverty rate is greater than 20 percent; or
- The tract's median family income is less than or equal to 80 percent of the State-wide median family income; or
- The tract is in a metropolitan area and has a median family income less than or equal to 80 percent of the metropolitan area's median family income.

Low-access census tracts

In the Food Access Research Atlas, low access to healthy food is defined as being far from a supermarket, supercenter, or large grocery store (or "supermarket"). A census tract is considered to have low access if a significant number or share of individuals live far from a supermarket.

In the original Food Desert Locator, low access was measured as living far from a supermarket, where 1 mile was used in urban areas and 10 miles was used in rural areas to demarcate those who are far from a supermarket. In urban areas, about 70 percent of the population was within 1 mile of a supermarket, while in rural areas over 90 percent of the population was within 10 miles (see *Access to Affordable and Nutritious Food: Updated Estimates of Distance to Supermarkets Using 2010 Data* at <https://www.ers.usda.gov/publications/pub-details/?pubid=45035>).

Updating the original 1- and 10-mile low-access measure shows that an estimated 18.3 million people in these low-income and low-access census tracts were far from a supermarket in 2010. Three additional measures of food access based on distance to a supermarket are provided in the Atlas:

- One additional measure applies a 0.5-mile demarcation in urban areas and a 10-mile distance in rural areas. Using this measure, an estimated 52.5 million people, or 17 percent of the U.S. population, have low access to a supermarket;
- A second measure applies a 1.0-mile demarcation in urban areas and a 20-mile distance in rural areas. Under this measure, an estimated 16.5 million people, or 5.3 percent of the U.S. population, have low access to a supermarket; and
- A slightly more complex measure incorporates vehicle access directly into the measure, delineating low-income tracts in which a significant number of households are located far from a supermarket and do not have access to a vehicle. This measure also includes census tracts with populations that are so remote, that, even with a vehicle, driving to a supermarket may be considered a burden due to the great distance. Using this measure, an estimated 2.1 million households, or 1.8 percent of all households, in low-income census tracts are far from a supermarket and do not have a vehicle. An additional 0.3 million people are more than 20 miles from a supermarket.

For each of the first three measures that are based solely on distance, a tract is designated as low access if the aggregate number of people in the census tract with low access is at least 500 or the percentage of people in the census tract with low access is at least 33 percent. For the final measure using vehicle availability, a tract is designated as having low vehicle access if at least one of the following is true:

- At least 100 households are more than ½ mile from the nearest supermarket and have no access to a vehicle; or
- At least 500 people or 33 percent of the population live more than 20 miles from the nearest supermarket, regardless of vehicle access.

Methods used to assess distance to the nearest supermarket are the same for each of these measures. First, the entire country is divided into ½-km square grids, and data on the population are aerially allocated to these grids (see *Access to Affordable and Nutritious Food: Updated Estimates of Distance to Supermarkets Using 2010 Data* at <https://www.ers.usda.gov/publications/pub-details/?pubid=45035>). Then, distance to the nearest supermarket is measured for each grid cell by calculating the distance between the geographic center of the ½-km square grid that contains estimates of the population (number of people and other subgroup characteristics) and the center of the grid with the nearest supermarket. Once the distance to the nearest supermarket is calculated for each grid cell, the estimated number of people or housing units that are more than 1 mile from a supermarket in urban tracts, or 10 miles in rural census tracts, is aggregated at the census-tract level (and similarly for the alternative distance markers). A census tract is considered rural if the population-weighted centroid is located in an area with a population of less than 2,500; all others are considered urban tracts.

Food deserts

The Food Access Research Atlas maps census tracts that are both low income (li) and low access (la), as measured by the different distance demarcations. This tool provides researchers and other users multiple ways to understand the characteristics that can contribute to food deserts, including income level, distance to supermarkets, and vehicle access.

Additional tract-level indicators of access

Vehicle availability

A tract is identified as having low vehicle availability if more than 100 households in the tract report having no vehicle available and are more than 0.5 miles from the nearest supermarket. This corresponds closely to the 80th percentile of the distribution of the number of housing units in a census tract without vehicles at least 0.5 miles from a supermarket (the 80 th percentile value was 106 housing units). This means that about 20 percent of all census tracts had more than 100 housing units that were 0.5 miles from a supermarket and without a vehicle. This indicator was applied to both urban and rural census tracts.

Overall, 8.8 percent of all housing units in the United States do not have a vehicle, and 4.2 percent of all housing units are at least 0.5 mile from a store and without a vehicle. Vehicle availability is defined in the American Community Survey as the number of passenger cars, vans, or trucks with a capacity of 1-ton or less kept at the home and available for use by household members. The number of available vehicles includes those vehicles leased or rented for at least 1 month, as well as company, police, or government vehicles that are kept at home and available for non-business use. Whether a vehicle is available to a household for private use is an important additional indicator of access to healthy and affordable food. For households living far from a supermarket or large grocery store, access to a private vehicle may make accessing these retailers easier than relying on public or alternative means of transportation.

Group quarters population

Users may be interested in highlighting tracts with large shares of people living in group quarters. Group quarters are residential arrangements where an entity or organization owns and provides housing (and often services) for individuals residing in these buildings. This includes college dormitories, military quarters, correctional facilities, homeless shelters, residential treatment centers, and assisted living or skilled nursing facilities. These living arrangements frequently provide dining and food retail solely for their residents. While individuals living in these areas may appear to be far from a supermarket or grocery store, they may not truly experience difficulty accessing healthy and affordable food. Tracts in which 67 percent of individuals or more live in group quarters are highlighted.

Variable List

Name	Definition	Geography
<u>Geographic Identifiers</u>		
STFIPS10	State FIPS Code (2-digit)	State
CNTYFIPS10	County FIPS Code (3-digit)	County
TRCTFIPS10	Tract FIPS code (6-digit)	Tract
STCTYFIPS10	County FIPS Code (5-digit)	County
LINKCEN2010	Tract FIPS code (11-digit)	Tract
STATEUSPS	State Abbreviation	State
STATENAME10	State Name	State
COUNTYNAME10	County Name	County

Name	Definition	Type	Geography	Years
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Food Environment Atlas

Food Environment Atlas: Access and Proximity to Grocery Store

u100	Population, low access to store	Count	County	2010, 2015
u101	Population, low access to store (% change)	% Change	County	2010-15
u102	Population, low access to store (%)	Percent	County	2010, 2015
u103	Low income & low access to store	Count	County	2010, 2015
u104	Low income & low access to store (% change)	% Change	County	2010-15
u105	Low income & low access to store (%)	Percent	County	2010, 2015
u106	Children, low access to store	Count	County	2010, 2015

Name	Definition	Type	Geography	Years
u107	Children, low access to store (% change)	% Change	County	2010–15
u108	Children, low access to store (%)	Percent	County	2010, 2015
u109	Seniors, low access to store	Count	County	2010, 2015
u110	Seniors, low access to store (% change)	% Change	County	2010–15
u111	Seniors, low access to store (%)	Percent	County	2010, 2015
u112	Households, no car & low access to store	Count	County	2010, 2015
u113	Households, no car & low access to store (% change)	% Change	County	2010–15
u114	Households, no car & low access to store (%)	Percent	County	2010, 2015
u115	SNAP households, low access to store	Count	County	2015
u116	SNAP households, low access to store (%)	Percent	County	2015
u117	White, low access to store	Count	County	2015
u118	White, low access to store (%)	Percent	County	2015
u119	Black, low access to store	Count	County	2015
u120	Black, low access to store (%)	Percent	County	2015
u121	Hispanic ethnicity, low access to store	Count	County	2015
u122	Hispanic ethnicity, low access to store (%)	Percent	County	2015
u123	Asian, low access to store	Count	County	2015
u124	Asian, low access to store (%)	Percent	County	2015
u125	American Indian or Alaska Native, low access to store	Count	County	2015
u126	American Indian or Alaska Native, low access to store (%)	Percent	County	2015
u127	Hawaiian or Pacific Islander, low access to store	Count	County	2015

Name	Definition	Type	Geography	Years
u128	Hawaiian or Pacific Islander, low access to store (%)	Percent	County	2015
u129	Multiracial, low access to store	Count	County	2015
u130	Multiracial, low access to store (%)	Percent	County	2015
<u>Food Environment Atlas: Store Availability: Grocery</u>				
u200	Grocery stores	Count	County	2007, 2009, 2012, 2014
u201	Grocery stores (% change)	% Change	County	2007-12, 2009-14
u202	Grocery stores/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u203	Grocery stores/1,000 pop (% change)	% Change	County	2007-12, 2009-14
<u>Food Environment Atlas: Store Availability: Supercenters</u>				
u204	Supercenters & club stores	Count	County	2007, 2009, 2012, 2014
u205	Supercenters & club stores (% change)	% Change	County	2007-12, 2009-14
u206	Supercenters & club stores/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u207	Supercenters & club stores/1,000 pop (% change)	% Change	County	2007-12, 2009-14
<u>Food Environment Atlas: Store Availability: Convenience</u>				
u208	Convenience stores	Count	County	2007, 2009, 2012, 2014
u209	Convenience stores (% change)	% Change	County	2007-12, 2009-14
u210	Convenience stores/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u211	Convenience stores/1,000 pop (% change)	% Change	County	2007-12, 2009-14
<u>Food Environment Atlas: Store Availability: Specialized</u>				
u212	Specialized food stores	Count	County	2007, 2009, 2012, 2014
u213	Specialized food stores (% change)	% Change	County	2007-12, 2009-14

Name	Definition	Type	Geography	Years
u214	Specialized food stores/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u215	Specialized food stores/1,000 pop (% change)	% Change	County	2007-12, 2009-14
<u>Food Environment Atlas: Store Availability: SNAP-Authorized</u>				
u216	SNAP-authorized stores	Count	County	2008, 2012, 2016
u217	SNAP-authorized stores (% change)	% Change	County	2008-12, 2002-16
u218	SNAP-authorized stores/1,000 pop	# per 1,000 pop	County	2008, 2012, 2016
u219	SNAP-authorized stores/1,000 pop (% change)	% Change	County	2008-12, 2002-16
<u>Food Environment Atlas: Store Availability: WIC-Authorized</u>				
u220	WIC-authorized stores	Count	County	2008, 2012
u221	WIC-authorized stores (% change)	% Change	County	2008-12
u222	WIC-authorized stores/1,000 pop	# per 1,000 pop	County	2008, 2012
u223	WIC-authorized stores/1,000 pop (% change)	% Change	County	2008-12
<u>Food Environment Atlas: Restaurant Availability: Fast-food</u>				
u300	Fast-food restaurants	Count	County	2007, 2009, 2012, 2014
u301	Fast-food restaurants (% change)	% Change	County	2007-12, 2009-14
u302	Fast-food restaurants/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u303	Fast-food restaurants/1,000 pop (% change)	% Change	County	2007-12, 2009-14
<u>Food Environment Atlas: Restaurant Availability: Full-service</u>				
u304	Full-service restaurants	Count	County	2007, 2009, 2012, 2014
u305	Full-service restaurants (% change)	% Change	County	2007-12, 2009-14
u306	Full-service restaurants/1,000 pop	Count	County	2007, 2009, 2012, 2014

Name	Definition	Type	Geography	Years
u307	Full-service restaurants/1,000 pop (% change)	% Change	County	2007–12, 2009–14
<u>Food Environment Atlas: Restaurant Expenditures</u>				
u308	Expenditures per capita, fast food	Dollars	State	2002, 2007, 2012
u309	Expenditures per capita, restaurants	Dollars	State	2002, 2007, 2012
<u>Food Environment Atlas: Food Assistance: SNAP</u>				
u400	SNAP redemptions/SNAP-authorized stores	Dollars/store	County	2008, 2012, 2016
u401	SNAP redemptions/SNAP-authorized stores (% change)	% Change	County	2008–12, 2002–16
u402	SNAP participants (% pop)	Percent	State	2009, 2012, 2014, 2016
u403	SNAP participants (change % pop)	Percentage points	State	2009–14, 2002–16
u404	SNAP benefits per capita	Dollars/capita	County	2008, 2010, 2015
u405	SNAP benefits per capita (% change)	% Change	County	2008–10, 2010–15
u406	SNAP participants (% eligible pop)	Percent	State	2008, 2010, 2013
u407	SNAP online application	Classification	State	2005, 2009, 2010, 2016
u408	SNAP face interview waiver	Classification	State	2005, 2010
u409	SNAP vehicle exclusion	Classification	State	2000, 2005, 2010
u410	SNAP Broad-based Categorical Eligibility	Classification	State	2000, 2005, 2009, 2010, 2016
u411	SNAP simplified reporting	Classification	State	2005, 2009, 2010, 2016
u412	SNAP Combined Application Project	Classification	State	2009, 2016
<u>Food Environment Atlas: Food Assistance: National School Lunch Program</u>				
u413	National School Lunch Program participants (% pop)	Percent	State	2009, 2014, 2015
u414	National School Lunch Program participants (change % pop)	Percentage points	State	2009–14, 2009–15

Name	Definition	Type	Geography	Years
u415	Students eligible for free lunch (%), 2006	Percent	County	2006, 2009, 2010, 2014
u416	Students eligible for reduced-price lunch (%), 2006	Percent	County	2006, 2009, 2010, 2014
<u>Food Environment Atlas: Food Assistance: School Breakfast Program</u>				
u417	School Breakfast Program participants (% pop)	Percent	State	2009, 2014, 2015
u418	School Breakfast Program participants (change % pop)	Percentage points	State	2009-14, 2009-15
<u>Food Environment Atlas: Food Assistance: Summer Food Service Program</u>				
u419	Summer Food Service Program participants (% pop)	Percent	State	2009, 2014, 2015
u420	Summer Food Program participants (change % pop)	Percentage points	State	2009-14, 2009-15
<u>Food Environment Atlas: Food Assistance: WIC</u>				
u421	WIC redemptions per capita	Dollars/capita	County	2008, 2012
u422	WIC redemptions per capita (% change)	% Change	County	2008-12
u423	WIC redemptions/WIC-authorized stores	Dollars/store	County	2008, 2012
u424	WIC redemptions/WIC-authorized stores (% change)	% Change	County	2008-12
u425	WIC participants (% pop)	Percent	State	2009, 2014, 2015
u426	WIC participants (change % pop)	Percentage points	State	2009-14, 2009-15
<u>Food Environment Atlas: Food Assistance: Child & Adult Care</u>				
u427	Child & Adult Care (% pop)	Percent	State	2009, 2014, 2015
u428	Child & Adult Care (change % pop)	Percentage points	State	2009-14, 2009-15
<u>Food Environment Atlas: Food Assistance: FDPIR</u>				
u429	FDPIR Sites	Count	County	2012

Food Environment Atlas: State Food Insecurity

Name	Definition	Type	Geography	Years
u500	Household food insecurity (% , three-year average)	Percent	State	2000–02, 2007–09, 2010–12, 2013–15
u501	Household food insecurity (change %)	Percentage points	State	2002–12, 2009–12, 2012–15
u502	Household very low food security (% , three-year average)	Percent	State	2000–02, 2007–09, 2010–12, 2013–15
u503	Household very low food security (change %)	Percentage points	State	2002–12, 2009–12, 2012–15
u504	Child food insecurity (% households, multiple-year average)	Percent	State	2001–07, 2003–11

Food Environment Atlas: Food Prices and Taxes: Prices

u600	Price of low-fat milk/national average	Ratio	County	2010
u601	Price of sodas/national average	Ratio	County	2010
u602	Price of low-fat milk/price of sodas	Ratio	County	2010
u603	Soda sales tax, retail stores	Percent	State	2011, 2014
u604	Soda sales tax, vending	Percent	State	2011, 2014
u605	Chip & pretzel sales tax, retail stores	Percent	State	2011, 2014
u606	Chip & pretzel sales tax, vending	Percent	State	2011, 2014
u607	General food sales tax, retail stores	Percent	State	2011, 2014

Food Environment Atlas: Local Foods: Direct Sales

u700	Farms with direct sales	Count	County	2007, 2012
u701	Farms with direct sales (%)	Percent	County	2007, 2012
u702	Farms with direct sales (% change)	% Change	County	2007–12

Name	Definition	Type	Geography	Years
u703	Direct farm sales	1,000 dollars	County	2007, 2012
u704	Direct farm sales (%)	Percent	County	2007, 2012
u705	Direct farm sales (% change)	% Change	County	2007–12
u706	Direct farm sales per capita	Dollars	County	2007, 2012
u707	Direct farm sales per capita (% change)	% Change	County	2007–12

Food Environment Atlas: Local Foods: Farmers' Markets

u708	Farmers' markets	Count	County	2009, 2013, 2016
u709	Farmers' markets (% change)	% Change	County	2009–13, 2009–16
u710	Farmers' markets/1,000 pop	# per 1,000 pop	County	2009, 2013, 2016
u711	Farmers' markets/1,000 pop (% change)	% Change	County	2009–13, 2009–16
u712	Farmers' markets that report accepting SNAP	Count	County	2013, 2016
u713	Farmers' markets that report accepting SNAP (%)	Percent	County	2013, 2016
u714	Farmers' markets that report accepting WIC	Count	County	2013, 2016
u715	Farmers' markets that report accepting WIC (%)	Percent	County	2013, 2016
u716	Farmers' markets that report accepting WIC Cash	Count	County	2013, 2016
u717	Farmers' markets that report accepting WIC Cash (%)	Percent	County	2013, 2016
u718	Farmers' markets that report accepting SFMNP	Count	County	2013, 2016
u719	Farmers' markets that report accepting SFMNP (%)	Percent	County	2013, 2016
u720	Farmers' markets that report accepting credit cards	Count	County	2016
u721	Farmers' markets that report accepting credit cards (%)	Percent	County	2016
u722	Farmers' markets that report selling fruit & vegetables	Count	County	2013, 2016

Name	Definition	Type	Geography	Years
u723	Farmers' markets that report selling fruit & vegetables (%)	Percent	County	2013, 2016
u724	Farmers' markets that report selling animal products	Count	County	2013, 2016
u725	Farmers' markets that report selling animal products (%)	Percent	County	2013, 2016
u726	Farmers' markets that report selling baked/prepared food products	Count	County	2016
u727	Farmers' markets that report selling baked/prepared food products (%)	Percent	County	2016
u728	Farmers' markets that report selling other food products	Count	County	2013, 2016
u729	Farmers' markets that report selling other food products (%)	Percent	County	2013, 2016

Food Environment Atlas: Local Foods: Farms & Crop Acreage

u730	Vegetable farms	Count	County	2007, 2012
u731	Vegetable farms (% change)	% Change	County	2007-12
u732	Vegetable acres harvested	Acres	County	2007, 2012
u733	Vegetable acres harvested (% change)	% Change	County	2007-12
u734	Vegetable acres harvested/1,000 pop	Acres/1,000 pop	County	2007, 2012
u735	Vegetable acres harvested/1,000 pop (% change)	% Change	County	2007-12
u736	Farms with vegetables harvested for fresh market	Count	County	2007, 2012
u737	Farms with vegetables harvested for fresh market (% change)	% Change	County	2007-12
u738	Vegetable acres harvested for fresh market	Acres	County	2007, 2012
u739	Vegetable acres harvested for fresh market (% change)	% Change	County	2007-12
u740	Vegetable acres harvested for fresh market/1,000 pop	Acres/1,000 pop	County	2007, 2012
u741	Vegetable acres harvested for fresh market/1,000 pop (% change)	% Change	County	2007-12
u742	Orchard farms	Count	County	2007, 2012

Name	Definition	Type	Geography	Years
u743	Orchard farms (% change)	% Change	County	2007-12
u744	Orchard acres	Acres	County	2007, 2012
u745	Orchard acres (% change)	% Change	County	2007-12
u746	Orchard acres/1,000 pop	Acres/1,000 pop	County	2007, 2012
u747	Orchard acres/1,000 pop (% change)	% Change	County	2007-12
u748	Berry farms	Count	County	2007, 2012
u749	Berry farms (% change)	% Change	County	2007-12
u750	Berry acres	Acres	County	2007, 2012
u751	Berry acres (% change)	% Change	County	2007-12
u752	Berry acres/1,000 pop	Acres/1,000 pop	County	2007, 2012
u753	Berry acres/1,000 pop (% change)	% Change	County	2007-12
u754	Greenhouse vegetable and fresh herb farms	Count	County	2007, 2012
u755	Greenhouse vegetable and fresh herb farms (% change)	% Change	County	2007-12
u756	Greenhouse veg and fresh herb sq feet	Sq ft	County	2007, 2012
u757	Greenhouse veg and fresh herb sq feet (% change)	% Change	County	2007-12
u758	Greenhouse veg and fresh herb sq feet/1,000 pop	Sq ft/1,000 pop	County	2007, 2012
u759	Greenhouse veg and fresh herb sq feet/1,000 pop (% change)	% Change	County	2007-12
u760	Small slaughterhouse facilities	Count	County	2007, 2012
u761	Small slaughterhouse facilities (% change)	% Change	County	2007-12

Food Environment Atlas: Local Foods: Other Local Food Outlets

u762	Food hubs	Classification	County	2012, 2016
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Name	Definition	Type	Geography	Years
u763	CSA farms	Count	County	2007, 2012
u764	CSA farms (% change)	% Change	County	2007–12
u765	Agritourism operations	Count	County	2007, 2012
u766	Agritourism operations (% change)	% Change	County	2007–12
u767	Agritourism receipts	Dollars	County	2007, 2012
u768	Agritourism receipts (% change)	% Change	County	2007–12
u769	Farm to school program	Classification	County	2009, 2013

Food Environment Atlas: Health and Physical Activity: Health

u800	Adult diabetes rate	Percent	County	2008, 2009, 2010, 2013
u801	Adult obesity rate	Percent	County	2008, 2009, 2010, 2013
u802	Low-income preschool obesity rate	Percent	County	2008, 2011
u803	Low-income preschool obesity rate (% change)	Percentage points	County	2008–11

Food Environment Atlas: Health and Physical Activity: Physical Activity

u804	High schoolers physically active (%)	Percent	County	2009, 2015
u805	Recreation & fitness facilities	Count	County	2007, 2009, 2012, 2014
u806	Recreation & fitness facilities (% change)	% Change	County	2007–12, 2009–14
u807	Recreation & fitness facilities/1,000 pop	# per 1,000 pop	County	2007, 2009, 2012, 2014
u808	Recreation & fitness facilities/1,000 pop (% change)	% Change	County	2007–12, 2009–14
u809	ERS natural amenity index	Legend	County	1999

Food Environment Atlas: Socioeconomic Characteristics: Race & Age

u900	% White	Percent	County	2010
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Name	Definition	Type	Geography	Years
u901	% Black	Percent	County	2010
u902	% Hispanic	Percent	County	2010
u903	% Asian	Percent	County	2010
u904	% American Indian or Alaska Native	Percent	County	2010
u905	% Hawaiian or Pacific Islander	Percent	County	2010
u906	% Population 65 years or older	Percent	County	2010
u907	% Population under age 18	Percent	County	2010

Food Environment Atlas: Socioeconomic Characteristics: Income Level

u908	Median household income	Dollars	County	2010, 2015
u909	Poverty rate	Percent	County	2010, 2015
u910	Persistent-poverty counties	Legend	County	2010
u911	Child poverty rate	Percent	County	2010, 2015
u912	Persistent-child-poverty counties	Legend	County	2010

Food Environment Atlas: Socioeconomic Characteristics: Other

u913	Metro/nonmetro counties	Legend	County	2010
u914	Population-loss counties	Legend	County	2000, 2010

Food Access Research Atlas

u1000	Urban tract	Indicator	Tract	2010
u1001	Population, tract total	Count	Tract	2010
u1002	Housing units, total	Count	Tract	2010
u1003	Group quarters, tract with high share	Proportion	Tract	2010

Name	Definition	Type	Geography	Years
u1004	Group quarters, tract population residing in, number	Count	Tract	2010
u1005	Group quarters, tract population residing in, share	Proportion	Tract	2010
u1006	Low income and low access tract measured at 1 mile urban and 10 miles rural	Indicator	Tract	2010
u1007	Low income and low access tract measured at 1/2 mile urban and 10 miles rural	Indicator	Tract	2010
u1008	Low income and low access tract measured at 1 mile urban and 20 miles rural	Indicator	Tract	2010
u1009	Low income and low access tract using vehicle access or measured at 20 miles	Indicator	Tract	2010
u1010	Vehicle access, tract with low vehicle access	Indicator	Tract	2010
u1011	Low income tract	Indicator	Tract	2010
u1012	Tract poverty rate	Indicator	Tract	2010
u1013	Tract median family income	Indicator	Tract	2010
u1014	Low access tract at 1 mile urban and 10 miles rural	Indicator	Tract	2010
u1015	Low access tract at 1/2 mile urban and 10 miles rural	Indicator	Tract	2010
u1016	Low access tract at 1 mile urban and 20 miles rural	Indicator	Tract	2010
u1017	Low access tract at 1/2 mile	Indicator	Tract	2010
u1018	Low access tract at 1 mile	Indicator	Tract	2010
u1019	Low access tract at 10 miles	Indicator	Tract	2010
u1020	Low access tract at 20 miles	Indicator	Tract	2010
u1021	Low access tract using vehicle access and at 20 miles in rural areas	Indicator	Tract	2010
u1022	Low access, population at 1 mile urban and 10 miles rural, number	Count	Tract	2010
u1023	Low access, population at 1/2 mile urban and 10 miles rural, number	Count	Tract	2010

Name	Definition	Type	Geography	Years
u1024	Low access, population at 1 mile urban and 20 miles rural, number	Count	Tract	2010
u1025	Low access, low-income population at 1 mile urban and 10 miles rural, number	Count	Tract	2010
u1026	Low access, low-income population at 1/2 mile urban and 10 miles rural, number	Count	Tract	2010
u1027	Low access, low-income population at 1 mile urban and 20 miles rural, number	Count	Tract	2010
u1028	Low access, population at 1/2 mile, number	Count	Tract	2010
u1029	Low access, population at 1/2 mile, share	Proportion	Tract	2010
u1030	Low access, low-income population at 1/2 mile, number	Count	Tract	2010
u1031	Low access, low-income population at 1/2 mile, share	Proportion	Tract	2010
u1032	Low access, children age 0-17 at 1/2 mile, number	Count	Tract	2010
u1033	Low access, children age 0-17 at 1/2 mile, share	Proportion	Tract	2010
u1034	Low access, seniors age 65+ at 1/2 mile, number	Count	Tract	2010
u1035	Low access, seniors age 65+ at 1/2 mile, share	Proportion	Tract	2010
u1036	Low access, White population at 1/2 mile, number	Count	Tract	2010
u1037	Low access, White population at 1/2 mile, share	Proportion	Tract	2010
u1038	Low access, Black or African American population at 1/2 mile, number	Count	Tract	2010
u1039	Low access, Black or African American population at 1/2 mile, share	Proportion	Tract	2010
u1040	Low access, Asian population at 1/2 mile, number	Count	Tract	2010
u1041	Low access, Asian population at 1/2 mile, share	Proportion	Tract	2010
u1042	Low access, Native Hawaiian or Other Pacific Islander pop at 1/2 mile, number	Count	Tract	2010
u1043	Low access, Native Hawaiian or Other Pacific Islander pop at 1/2 mile, share	Proportion	Tract	2010
u1044	Low access, American Indian or Alaska Native population at 1/2 mile, number	Count	Tract	2010

Name	Definition	Type	Geography	Years
u1045	Low access, American Indian or Alaska Native population at 1/2 mile, share	Proportion	Tract	2010
u1046	Low access, Other/Multiple race population at 1/2 mile, number	Count	Tract	2010
u1047	Low access, Other/Multiple race population at 1/2 mile, share	Proportion	Tract	2010
u1048	Low access, Hispanic or Latino population at 1/2 mile, number	Count	Tract	2010
u1049	Low access, Hispanic or Latino population at 1/2 mile, share	Proportion	Tract	2010
u1050	Vehicle access, housing units without and low access at 1/2 mile, number	Count	Tract	2010
u1051	Vehicle access, housing units without and low access at 1/2 mile, share	Proportion	Tract	2010
u1052	Low access, housing units receiving SNAP benefits at 1/2 mile, number	Count	Tract	2010
u1053	Low access, housing units receiving SNAP benefits at 1/2 mile, share	Proportion	Tract	2010
u1054	Low access, population at 1 mile, number	Count	Tract	2010
u1055	Low access, population at 1 mile, share	Proportion	Tract	2010
u1056	Low access, low-income population at 1 mile, number	Count	Tract	2010
u1057	Low access, low-income population at 1 mile, share	Proportion	Tract	2010
u1058	Low access, children age 0-17 at 1 mile, number	Count	Tract	2010
u1059	Low access, children age 0-17 at 1 mile, share	Proportion	Tract	2010
u1060	Low access, seniors age 65+ at 1 mile, number	Count	Tract	2010
u1061	Low access, seniors age 65+ at 1 mile, share	Proportion	Tract	2010
u1062	Low access, White population at 1 mile, number	Count	Tract	2010
u1063	Low access, White population at 1 mile, share	Proportion	Tract	2010
u1064	Low access, Black or African American population at 1 mile, number	Count	Tract	2010
u1065	Low access, Black or African American population at 1 mile, share	Proportion	Tract	2010

Name	Definition	Type	Geography	Years
u1066	Low access, Asian population at 1 mile, number	Count	Tract	2010
u1067	Low access, Asian population at 1 mile, share	Proportion	Tract	2010
u1068	Low access, Native Hawaiian and Other Pacific Islander pop at 1 mile, number	Count	Tract	2010
u1069	Low access, Native Hawaiian and Other Pacific Islander pop at 1 mile, share	Proportion	Tract	2010
u1070	Low access, American Indian and Alaska Native population at 1 mile, number	Count	Tract	2010
u1071	Low access, American Indian and Alaska Native population at 1 mile, share	Proportion	Tract	2010
u1072	Low access, Other/Multiple race population at 1 mile, number	Count	Tract	2010
u1073	Low access, Other/Multiple race population at 1 mile, share	Proportion	Tract	2010
u1074	Low access, Hispanic or Latino population at 1 mile, number	Count	Tract	2010
u1075	Low access, Hispanic or Latino population at 1 mile, share	Proportion	Tract	2010
u1076	Vehicle access, housing units without and low access at 1 mile, number	Count	Tract	2010
u1077	Vehicle access, housing units without and low access at 1 mile, share	Proportion	Tract	2010
u1078	Low access, housing units receiving SNAP benefits at 1 mile, number	Count	Tract	2010
u1079	Low access, housing units receiving SNAP benefits at 1 mile, share	Proportion	Tract	2010
u1080	Low access, population at 10 miles, number	Count	Tract	2010
u1081	Low access, population at 10 miles, share	Proportion	Tract	2010
u1082	Low access, low-income population at 10 miles, number	Count	Tract	2010
u1083	Low access, low-income population at 10 miles, share	Proportion	Tract	2010
u1084	Low access, children age 0-17 at 10 miles, number	Count	Tract	2010
u1085	Low access, children age 0-17 at 10 miles, share	Proportion	Tract	2010
u1086	Low access, seniors age 65+ at 10 miles, number	Count	Tract	2010

Name	Definition	Type	Geography	Years
u1087	Low access, seniors age 65+ at 10 miles, share	Proportion	Tract	2010
u1088	Low access, White population at 10 miles, number	Count	Tract	2010
u1089	Low access, White population at 10 miles, share	Proportion	Tract	2010
u1090	Low access, Black or African American population at 10 miles, number	Count	Tract	2010
u1091	Low access, Black or African American population at 10 miles, share	Proportion	Tract	2010
u1092	Low access, Asian population at 10 miles, number	Count	Tract	2010
u1093	Low access, Asian population at 10 miles, share	Proportion	Tract	2010
u1094	Low access, Native Hawaiian and Other Pacific Islander pop at 10 miles, number	Count	Tract	2010
u1095	Low access, Native Hawaiian and Other Pacific Islander pop at 10 miles, share	Proportion	Tract	2010
u1096	Low access, American Indian and Alaska Native population at 10 miles, number	Count	Tract	2010
u1097	Low access, American Indian and Alaska Native population at 10 miles, share	Proportion	Tract	2010
u1098	Low access, Other/Multiple race population at 10 miles, number	Count	Tract	2010
u1099	Low access, Other/Multiple race population at 10 miles, share	Proportion	Tract	2010
u1100	Low access, Hispanic or Latino population at 10 miles, number	Count	Tract	2010
u1101	Low access, Hispanic or Latino population at 10 miles, share	Proportion	Tract	2010
u1102	Vehicle access, housing units without and low access at 10 miles, number	Count	Tract	2010
u1103	Vehicle access, housing units without and low access at 10 miles, share	Proportion	Tract	2010
u1104	Low access, housing units receiving SNAP benefits at 10 miles, number	Count	Tract	2010
u1105	Low access, housing units receiving SNAP benefits at 10 miles, share	Proportion	Tract	2010
u1106	Low access, population at 20 miles, number	Count	Tract	2010
u1107	Low access, population at 20 miles, share	Proportion	Tract	2010

Name	Definition	Type	Geography	Years
u1108	Low access, low-income population at 20 miles, number	Count	Tract	2010
u1109	Low access, low-income population at 20 miles, share	Proportion	Tract	2010
u1110	Low access, children age 0-17 at 20 miles, number	Count	Tract	2010
u1111	Low access, children age 0-17 at 20 miles, share	Proportion	Tract	2010
u1112	Low access, seniors age 65+ at 20 miles, number	Count	Tract	2010
u1113	Low access, seniors age 65+ at 20 miles, share	Proportion	Tract	2010
u1114	Low access, White population at 20 miles, number	Count	Tract	2010
u1115	Low access, White population at 20 miles, share	Proportion	Tract	2010
u1116	Low access, Black or African American population at 20 miles, number	Count	Tract	2010
u1117	Low access, Black or African American population at 20 miles, share	Proportion	Tract	2010
u1118	Low access, Asian population at 20 miles, number	Count	Tract	2010
u1119	Low access, Asian population at 20 miles, share	Proportion	Tract	2010
u1120	Low access, Native Hawaiian and Other Pacific Islander pop at 20 miles, number	Count	Tract	2010
u1121	Low access, Native Hawaiian and Other Pacific Islander pop at 20 miles, share	Proportion	Tract	2010
u1122	Low access, American Indian and Alaska Native population at 20 miles, number	Count	Tract	2010
u1123	Low access, American Indian and Alaska Native population at 20 miles, share	Proportion	Tract	2010
u1124	Low access, Other/Multiple race population at 20 miles, number	Count	Tract	2010
u1125	Low access, Other/Multiple race population at 20 miles, share	Proportion	Tract	2010
u1126	Low access, Hispanic or Latino population at 20 miles, number	Count	Tract	2010
u1127	Low access, Hispanic or Latino population at 20 miles, share	Proportion	Tract	2010
u1128	Vehicle access, housing units without and low access at 20 miles, number	Count	Tract	2010

Name	Definition	Type	Geography	Years
u1129	Vehicle access, housing units without and low access at 20 miles, share	Proportion	Tract	2010
u1130	Low access, housing units receiving SNAP benefits at 20 miles, number	Count	Tract	2010
u1131	Low access, housing units receiving SNAP benefits at 20 miles, share	Proportion	Tract	2010
u1132	Tract low-income population, number	Count	Tract	2010
u1133	Tract children age 0-17, number	Count	Tract	2010
u1134	Tract seniors age 65+, number	Count	Tract	2010
u1135	Tract White population, number	Count	Tract	2010
u1136	Tract Black or African American population, number	Count	Tract	2010
u1137	Tract Asian population, number	Count	Tract	2010
u1138	Tract Native Hawaiian and Other Pacific Islander population, number	Count	Tract	2010
u1139	Tract American Indian and Alaska Native population, number	Count	Tract	2010
u1140	Tract Other/Multiple race population, number	Count	Tract	2010
u1141	Tract Hispanic or Latino population, number	Count	Tract	2010
u1142	Tract housing units without a vehicle, number	Count	Tract	2010
u1143	Tract housing units receiving SNAP benefits, number	Count	Tract	2010