3. Geographic Shapefile Concepts Overview

The following sections describe the geographic entity type displayed in each shapefile, as well as the record layout for each file, in alphabetical order. A listing of all available shapefiles, including vintage and geographic level (state, county, and national), precedes the description of the entity type.

3.1 American Indian / Alaska Native / Native Hawaiian (AIANNH) Areas

3.1.1 Alaska Native Regional Corporations (ANRCs)

Alaska Native Regional Corporations geography and attributes are available for Alaska in the following shapefile:

Alaska Native Regional Corporation (ANRC) State Shapefile (Current)

ANRCs are corporations created according to the Alaska Native Claims Settlement Act (Pub. L. 92–203, 85 Stat. 688 (1971); 43 U.S.C. 1602 et seq. (2000)). The laws of the State of Alaska organize "Regional Corporations" to conduct both the for-profit and non-profit affairs of Alaska Natives within defined regions of the state. The Census Bureau treats ANRCs as legal geographic entities. Twelve ANRCs cover the entire State of Alaska except for the area within the Annette Island Reserve (an American Indian Reservation under the governmental authority of the Metlakatla Indian Community). There is a thirteenth ANRC that represents the eligible Alaska Natives living outside of Alaska that are not members of any of the twelve ANRCs within the State of Alaska. Because it has no defined geographic extent, this thirteenth ANRC does not appear in the TIGER/Line Shapefiles and the Census Bureau does not provide data for it. The Census Bureau offers representatives of the twelve ANRCs the opportunity to review and update the ANRC boundaries. TIGER/Line Shapefiles represent ANRCs with a 5-character FIPS code unique within Alaska and a nationally unique 8-character National Standard (GNIS) code.

3.1.1.1 Alaska Native Regional Corporation (ANRC) Shapefile Record Layout (Current)

File Name: tl_2019_02_anrc.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
ANRCFP	5	String	Current Alaska Native Regional Corporation FIPS code
ANRCNS	8	String	Current Alaska Native Regional Corporation GNIS code
GEOID	7	String	Alaska Native Regional Corporation identifier; a concatenation of Current state FIPS code and Alaska Native Regional Corporation code
NAME	100	String	Current Alaska Native Regional Corporation name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for Alaska Native Regional Corporation
LSAD	2	String	Current legal/statistical area description code for Alaska Native Regional Corporation

Field	Length	Type	Description
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G2200)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.1.2 American Indian/Alaska Native/Native Hawaiian (AIANNH) Areas

American Indian, Alaska Native, and Native Hawaiian area geography and attributes are available in the following shapefile:

American Indian/Alaska Native/Native Hawaiian (AIANNH) Area National Shapefile (Current)

This shapefile contain both legal and statistical American Indian, Alaska Native, and Native Hawaiian entities for which the Census Bureau publishes data. The legal entities consist of federally recognized American Indian reservations and off-reservation trust land areas, state-recognized American Indian reservations, and Hawaiian home lands (HHLs). American Indian tribal subdivisions and Alaska Native Regional Corporations (ANRCs) are additional types of legal entities, displayed in separate shapefiles discussed in this chapter. The statistical entities displayed in these shapefiles are Alaska Native village statistical areas (ANVSAs), Oklahoma tribal statistical areas (OTSAs), tribal designated statistical areas (TDSAs), and state designated tribal statistical areas (SDTSAs). A list of area definitions follows this section.

The American Indian/Alaska Native/Native Hawaiian (AIANNH) Area shapefiles contain a unique polygon record for each American Indian reservation or off-reservation trust land, Hawaiian home land, Alaska Native Village statistical area, and American Indian statistical geographic entity. For example, the Fort Peck Indian Reservation will have two records: one for the reservation portion and another for the off-reservation trust land portion. Entities with only a single component, such as a Hawaiian home land, Alaska Native Village statistical area, American Indian statistical geographic entity, reservation without any associated off-reservation trust land, or an entity that is only off-reservation trust land, will contain a single record.

American Indian, Alaska Native, and Native Hawaiian areas cannot overlap another tribal entity. Exceptions are tribal subdivisions, which subdivide some American Indian entities, and Alaska Native village statistical areas (ANVSAs), which exist within Alaska Native Regional Corporations (ANRCs). In cases where more than one tribe claims jurisdiction over an area, the Census Bureau creates a joint-use area as a separate entity to define this area of dual claims.

<u>Legal Entity Definitions</u>

American Indian Reservations—Federal (federal AIRs) are areas set aside by the United States for the use of federally recognized tribes. The exterior boundaries of federal AIRs are defined in tribal treaties, agreements, executive orders, federal statutes, secretarial orders, and/or judicial determinations. The Census Bureau recognizes federal reservations as territory over which American Indian tribes have governmental authority. These entities are known as colonies, communities, Indian colonies, Indian communities, Indian Rancherias, Indian Reservations, Indian villages, pueblos, rancherias, ranches, reservations, reserves, settlements, villages, or other descriptions. The Bureau of Indian Affairs within the

U.S. Department of Interior regularly publishes a list of federally recognized tribal governments in the Federal Register. The Census Bureau contacts representatives of these federally recognized American Indian tribal governments to identify the boundaries for federal reservations. Federal reservations may cross state, county, county subdivision, and/or place boundaries.

To obtain the list of federally recognized tribal governments and for more detailed information regarding tribal governments, please visit the Bureau of Indian Affairs website at: http://www.bia.gov/.

Each federal AIR and reservation equivalent joint-use area is assigned a nationally unique 4-character census code ranging from 0001 through 4999. These census codes are assigned in alphabetical order of AIR names nationwide, except that joint-use areas appear at the end of the code range (4900 to 4999). Federal AIRs and reservation equivalent joint-use areas are also assigned a nationally unique 8-character National Standard (GNIS) code.

American Indian Reservations—State (state AIRs) are established by some state governments for tribes recognized by the state. A governor-appointed state liaison provides the names and boundaries for state-recognized American Indian reservations to the Census Bureau. State reservations may cross county, county subdivision, and/or place boundaries.

Each state American Indian reservation is assigned a nationally unique 4-character census code ranging from 9000 through 9499. Each state AIR also is assigned a nationally unique 8-character National Standard (GNIS) code.

American Indian Trust Lands are areas for which the United States holds title in trust for the benefit of a tribe (tribal trust land) or for an individual American Indian tribal member (individual trust land or allotment). Trust lands may be located on (on-reservation) or off an American Indian reservation (off-reservation). The Census Bureau recognizes and tabulates data for reservations and off-reservation trust lands (ORTLs) because American Indian tribes have governmental authority over these lands. Tribal governmental authority generally applies to lands located off the reservation only when the lands are in trust status. In Census Bureau data tabulations, ORTLs are always associated with a specific federally recognized reservation and/or tribal government. A tribal government appointed liaison provides the name and boundaries of their ORTLs. The Census Bureau does not identify on-reservation trust land, fee land (or land in fee simple status), or restricted fee lands as specific geographic categories and they are not identified as such in the TIGER/Line Shapefiles.

Hawaiian Home Lands (HHLs) are areas held in trust for Native Hawaiians by the State of Hawaii, according to the Hawaiian Homes Commission Act of 1920, as amended. Based on a compact between the federal government and the new State of Hawaii in 1959, the Hawaii Admission Act vested land title and responsibility for the program with the State. An HHL is not a governmental unit; rather, a home land is a tract of land with a legally defined boundary that is owned by the state, which, as authorized by the Act, may lease to one or more Native Hawaiians for residential, agricultural, commercial, industrial, pastoral, and/or any other activities authorized by state law. The Census Bureau obtains the names and boundaries for Hawaiian home lands from State officials. The names of the home lands are based on the traditional ahupua'a names of the Crown and government lands of the Kingdom of Hawaii from which the lands were designated or from the local name for an area.

Being lands held in trust, Hawaiian home lands are treated as equivalent to off-reservation trust land areas with an AIANNH area trust land indicator coded as “T”. Each Hawaiian home land area is assigned a nationally unique 4-character census code ranging from 5000 through 5499 based on the alphabetical

sequence of each HHL name. Each Hawaiian home land is also assigned a 5-character FIPS code in alphabetical order within the State of Hawaii and a nationally unique 8-character National Standard (GNIS) code.

Joint-Use Areas designate land administered jointly and/or claimed by two or more federally recognized American Indian tribes. The Census Bureau designates both legal and statistical joint-use areas as unique geographic entities for presenting statistical data. Joint-use areas only apply to overlapping federally recognized American Indian reservations and/or off-reservation trust lands.

Each Joint-Use Area is assigned a nationally unique 4-character census code ranging from 4800 through 4999 and a nationally unique 8-character National Standard (GNIS) code.

Statistical Entity Definitions

Alaska Native Village Statistical Areas (ANVSAs) are a statistical geographic entity that represents the residences, permanent and/or seasonal, for Alaska Natives who are members of or are primarily receiving governmental services from the defining Alaska Native village (ANV) and that are located within the region and vicinity of the ANV's historic and/or traditional location. ANVSAs represent the relatively densely settled portion of each ANV and ideally include only an area where Alaska Natives, especially members of the defining ANV, represent a significant proportion of the population during at least one season of the year (at least three consecutive months). Officials of the ANV delineated or reviewed ANVSA boundaries. If no ANV official chose to participate in the delineation process, officials of the non-profit Alaska Native Regional Corporation (ANRC) in which the ANV is located delineated or reviewed the boundaries. In some cases, if neither the ANV nor ANRC official chose to participate in the delineation process, the Census Bureau reviewed and delineated the ANVSA. An ANVSA may not overlap the boundary of another ANVSA or an American Indian reservation.

Each ANVSA is assigned a nationally unique 4-character census code ranging from 6000 to 7999 based on the alphabetical sequence of each ANVSA's name. Each ANVSA is also assigned a nationally unique 8-character National Standard (GNIS) code.

Joint-Use Areas designate land administered jointly and/or claimed by two or more American Indian tribes. The Census Bureau designates both legal and statistical joint-use areas as unique geographic entities for presenting statistical data. Statistical joint-use areas only apply to overlapping Oklahoma tribal statistical areas.

Oklahoma Tribal Statistical Areas (OTSAs) are statistical entities identified and delineated by the Census Bureau in consultation with federally recognized American Indian tribes that formerly had a reservation in Oklahoma. The boundary of an OTSA is generally that of the former reservation in Oklahoma, except where modified by agreements with neighboring federally recognized tribes that are eligible to delineate an OTSA. Tribal subdivisions can exist within the statistical Oklahoma tribal statistical areas. Each OTSA is assigned a nationally unique 4-character census code ranging from 5500 through 5999 based on the alphabetical sequence of each OTSA's name, except that the joint-use areas appear at the end of the code range. Each OTSA also is assigned a nationally unique 8-character National Standard (GNIS) code.

State Designated Tribal Statistical Areas (SDTSAs) are statistical entities for state-recognized American Indian tribes that do not have a state-recognized reservation. State liaisons chosen by the governor's office in each state identify and delineate SDTSAs for the Census Bureau. SDTSAs are generally a compact and contiguous area that contains a concentration of people who identify with a state-recognized American Indian tribe and in which there is structured or organized tribal activity. An SDTSA may not be

located in more than one state unless both states recognize the tribe, and may not include area within any other AIANNH areas. Note that for Census 2000 these areas were termed State Designated American Indian Statistical Areas (SDAISAs); SDTSAs bring consistency to tribal statistical area terms.

Each SDTSA is assigned a nationally unique 4-character census code ranging from 9500 through 9998 in alphabetical sequence of SDTSA names nationwide. Each SDTSA also is assigned a nationally unique 8-character National Standard (GNIS) code.

Tribal Designated Statistical Areas (TDSAs) are statistical entities identified and delineated for the Census Bureau by federally recognized American Indian tribes that do not currently have a reservation or off-reservation trust land. A TDSA should be comparable to AIRs within the same state and/or region, especially for tribes that are of similar size. A TDSA is generally a compact and contiguous area that contains a concentration of individuals who identify with the delineating federally recognized American Indian tribe and in which there is structured or organized tribal activity. A TDSA may be located in more than one state, but it may not include area within any other AIANNH areas. Each TDSA is assigned a nationally unique 4-character census code ranging from 8000 through 8999 in alphabetical sequence of TDSA names nationwide. Each TDSA is also assigned a nationally unique 8-character National Standard (GNIS) code.

AIANNH Area Codes—the American Indian, Alaska Native, and Native Hawaiian (AIANNH) areas are represented in the TIGER/Line Shapefiles by a 4-character census code field, and a single alphabetic character AIANNH area reservation/statistical area or off-reservation trust land (ORTL) indicator field, shown as COMPTYP (component type). The census codes are assigned in alphabetical order in assigned ranges by AIANNH area type nationwide, except that joint-use areas appear at the end of their applicable code range. ORTLs are assigned the same code as the reservation with which they are associated. ORTLs associated with tribes that do not have a reservation are assigned codes based on their tribal name. There is one record created for each unique combination of AIANNH code and component type. Each AIANNH area also is assigned a nationally unique 8-character National Standard (GNIS) code.

The type of AIANNH area can be identified either by its census code (AIANNHCE), its MAF/TIGER feature class code (MTFCC), or its FIPS class code (CLASSFP). The range of census codes allocated to each AIANNH area and the valid FIPS class code(s) associated with each are in Table 3.

Table 3: Census codes for each AIANNH area

Type	Census Code Range	Valid FIPS Class Codes	MTFCCs
Federal AIR or ORTL	0001 to 4899	D1, D2, D3	G2100
Federal AIR/ORTL joint-use area	4900 to 4999	D0	G2170
Hawaiian home land	5000 to 5499	F1	G2120
OTSA	5500 to 5899	D6	G2140
OTSA joint-use area	5900 to 5999	D0	G2170
ANVSA	6000 to 7999	E1	G2130
TDSA	8000 to 8999	D6	G2160
State AIR	9000 to 9499	D4	G2100
SDTSA	9500 to 9998	D9	G2150

Notes:

- G2100 can represent both federally and state-recognized areas; the recognition level can be determined using the federal/state recognition flag (AIANNHR) field where “F” is federally recognized and “S” is state-recognized.
- Joint-use areas are identified uniquely by MTFCC G2170. An “A” in the functional status (FUNCSTAT) field identifies federal AIR/ORTL joint-use areas, while an “S” in the field represents joint-use OTSAs.
- FIPS Class Codes for Federal AIRs or ORTLs:
    - D1: Legal federally recognized American Indian area consisting of reservation and associated off-reservation trust land
    - D2: Legal federally recognized American Indian area consisting of reservation only
    - D3: Legal federally recognized American Indian area consisting of off-reservation trust land only

Table 4: Component types for AIANNH areas

Type	Component Type (COMPTYP)
American Indian Trust Land	T
Reservation or Statistical Entity	R

3.1.2.1 American Indian / Alaska Native / Native Hawaiian (AIANNH) Area National Shapefile Record Layout (Current)

File Name: tl_2019_us_aiannh.shp

Field	Length	Type	Description
AIANNHCE	4	String	Current American Indian/Alaska Native/Native Hawaiian area census code
AIANNHNS	8	String	Current American Indian/Alaska Native/Native Hawaiian area GNIS code
GEOID	5	String	American Indian/Alaska Native/Native Hawaiian area identifier; a concatenation of Current American Indian/Alaska Native/Native Hawaiian area census code and reservation/statistical area or off-reservation trust land Hawaiian home land indicator
NAME	100	String	Current American Indian/Alaska Native/Native Hawaiian area name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for American Indian/Alaska Native/Native Hawaiian area
LSAD	2	String	Current legal/statistical area description code for American Indian/Alaska Native/Native Hawaiian area

Field	Length	Type	Description
CLASSFP	2	String	Current FIPS class code
COMPTYP	1	String	Current American Indian/Alaska Native/Native Hawaiian area reservation/statistical area or off-reservation trust land Hawaiian home land indicator
AIANNHR	1	String	Current American Indian/Alaska Native/Native Hawaiian area federal/state recognition flag
MTFCC	5	String	MAF/TIGER feature class code
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.1.3 American Indian Tribal Subdivisions

American Indian Tribal Subdivision geography and attributes are available in the following shapefile:

American Indian Tribal Subdivision (AITS) National Shapefile (Current)

American Indian Tribal Subdivisions (AITS) are legally defined administrative subdivisions of federally recognized American Indian reservations and/or off-reservation trust lands or Oklahoma tribal statistical areas (OTSAs). Tribal subdivisions are known as additions, administrative areas, areas, chapters, county districts, districts, or segments. These entities are internal units of self-government or administration that serve social, cultural, and/or economic purposes for the American Indians on the reservations, off-reservation trust lands, or OTSAs. The Census Bureau obtains the boundary and name information for tribal subdivisions from the federally recognized tribal governments.

American Indian Tribal Subdivision Codes are represented in the TIGER/Line Shapefiles by a 3-character census code. The Census Bureau assigns the 3-character American Indian tribal subdivision code alphabetically in order and uniquely within each American Indian reservation and/or associated off-reservation trust land or Oklahoma tribal statistical area (OTSA). Each AITS is also assigned a nationally unique 8-character National Standard (GNIS) code.

3.1.3.1 American Indian Tribal Subdivision (AITS) National Shapefile Record Layout

File Name: tl_2019_us_aitsn.shp

Field	Length	Type	Description
AIANNHCE	4	String	Current American Indian/Alaska Native/Native Hawaiian area census code
TRSUBCE	3	String	Current American Indian tribal subdivision census code
TRSUBNS	8	String	Current American Indian tribal subdivision GNIS code
GEOID	7	String	American Indian tribal subdivision identifier; a concatenation of Current American Indian/Alaska Native/Native Hawaiian area census code and American Indian tribal subdivision census code
NAME	100	String	Current American Indian tribal subdivision name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for American Indian tribal subdivision
LSAD	2	String	Current legal/statistical area description code for American Indian tribal subdivision
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G2300)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.1.4 Tribal Census Tract

Tribal census tract geography and attributes are available in the following shapefile:

Tribal Census Tract National Shapefile (Current)

Tribal census tracts are relatively small statistical subdivisions of an American Indian reservation and/or off-reservation trust land (ORTL),defined by federally recognized tribal government officials in the Census Bureau's Tribal Statistical Areas Program (TSAP) for the 2010 Census. If a tribal government declined to participate in the TSAP, the Census Bureau delineated tribal census tracts on the American Indian reservation and/or ORTL. Tribal census tracts are conceptually similar and equivalent to standard census

tracts. Unlike standard census tracts, however, tribal census tracts may cross state, county, and standard census tract boundaries.

Tribal census tracts generally have at least 1,200 persons or 480 housing units, and no more than 8,000 persons or 3,200 housing units, with an optimal size of 4,000 persons or 1,600 housing units. Many American Indian reservations and/or off-reservation trust lands have less than 2,400 persons and/or 960 housing units; in those cases, one tribal census tract was delineated that covers the entire American Indian reservation and/or off-reservation trust land.

A tribal census tract usually covers a contiguous area but in some cases may consist of more than one discrete area. Tribal census tracts nest within individually federally recognized American Indian reservations and/or ORTLs. In some cases, an American Indian reservations and/or ORTL might be noncontiguous, so the tribal census tracts will be as well.

Tribal Census Tracts Codes—Tribal census tracts have a 4-character basic name/code plus a 2-character suffix, for use if the tribal census tract splits in the future. (Because 2010 is the first Census that used this coding scheme, no tribal census tracts currently have suffixes, in other words they all have a suffix of "00.") Tribal census tract codes all begin with the letter "T" followed by three digits and the 2-character suffix, for example T00200. Tribal census tract codes have an implied decimal between the basic code and the suffix, and are unique within an American Indian reservation and/or ORTL. The code is in the TTRACTCE field.

Tribal Census Tract Names—the tribal census tract code also acts as its name, with the suffix only appended if required. While the TTRACTCE field contains the 6-character code format (including the suffix), the NAME field contains the tribal census tract name as displayed in Census Bureau printed reports and on mapping products. The name will consist of the first four characters ("T" followed by three digits, including any leading or trailing zeroes) and a decimal point followed by the 2-character suffix if the suffix is something other than "00." When the suffix is only zeroes, the tribal tract decimal point and suffix are absent. For example, tribal census tract code "T01000" has a tribal census tract name of "T010". The NAMELSAD field includes both the translated legal/statistical area description and the tribal tract name, as in "Tribal census tract T010".

For more information on the TSAP, please visit: https://www.census.gov/programs-surveys/geography/about/partnerships/2010-census-partnerships/tsap.html.

3.1.4.1 Tribal Census Tract National Shapefile (Current)

File Name: tl_2019_us_ttract.shp

Field	Length	Type	Description
AIANNHCE	4	String	Current American Indian/Alaska Native/Native Hawaiian area census code
TTRACTCE	6	String	Current tribal census tract code
GEOID	10	String	Tribal census tract identifier; a concatenation of the American Indian Area census code and tribal census tract code

Field	Length	Type	Description
NAME	7	String	Current tribal census tract name, including the decimal point and decimal digits if a non-zero census tract suffix exists
NAMELSAD	27	String	Current translated legal/statistical area description and the tribal census tract name
MTFCC	5	String	MAF/TIGER feature class code (G2400)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.1.5 Tribal Block Group

Tribal block group geography and attributes are available in the following shapefile:

Tribal Block Group National Shapefile (Current)

Tribal block groups are subdivisions of a tribal census tract. For the 2010 Census, federally recognized tribal government officials in the Census Bureau's Tribal Statistical Areas Program (TSAP) defined tribal block groups. If a tribal government declined to participate in the TSAP, the Census Bureau delineated tribal block groups on the American Indian reservation and/or off-reservation trust land (ORTL). Tribal block groups should contain between 600 and 3,000 persons or between 240 and 1,200 housing units. Many American Indian reservations and ORTLs have less than the minimum population thresholds for more than one tribal block group and in those cases one tribal block group covers the entire American Indian reservation and/or ORTL. Unlike standard block groups, the cluster of blocks that comprises each tribal block group will not necessarily begin with the same first number of their 4-character census block number, but may contain blocks from several different standard census block groups.

A tribal block group usually covers a contiguous area but in some cases may consist of more than one discrete area. Tribal block groups nest within tribal census tracts and within individual federally recognized American Indian reservations and/or ORTLs. In some cases, an American Indian reservation and/or ORTLs might be noncontiguous, so the tribal block groups are as well. In addition, tribal block group boundaries may cross standard census tract, standard block group, county, and/or state boundaries.

Tribal block groups are uniquely named within tribal tracts. Tribal block group names and codes are identical and are a single capital letter character from "A" to "K" (except for the letter "I"). No relationship exists between the tribal block group identifier and the numbering of census blocks within the tribal block group. A tribal block group will always be identified in conjunction with the tribal census tract within which it is contained, for example T00100A.

For more information on the TSAP, please visit: https://www.census.gov/programs-surveys/geography/about/partnerships/2010-census-partnerships/tsap.html.

3.1.5.1 Tribal Block Group National Shapefile (Current)

File Name: tl_2019_us_tbg.shp

Field	Length	Type	Description
AIANNHCE	4	String	Current Census American Indian/Alaska Native/Native Hawaiian area census code
TTRACTCE	6	String	Current tribal census tract code
TBLKGPCE	1	String	Current tribal block group letter
GEOID	11	String	Tribal block group identifier; a concatenation of the Current American Indian/Alaska Native/Native Hawaiian area census code, tribal census tract code, and tribal block group letter
NAMELSAD	20	String	Current translated legal/statistical area description and the tribal block group letter
MTFCC	5	String	MAF/TIGER feature class code (G2410)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.2 Blocks (Census Block)

Block geography and attributes are available in the following shapefile:

Block State-based Shapefile (2010 Geography)

Census blocks are statistical areas bounded on all sides by visible features, such as streets, roads, streams, and railroad tracks, and by non-visible boundaries such as city, town, township, and county limits, and short line-of-sight extensions of streets and roads. Generally, census blocks are small in area; for example, a block in a city. Census blocks in suburban and rural areas may be large, irregular and bounded by a variety of features, such as roads, streams, and/or transmission line rights-of-way. In remote areas, census blocks may encompass hundreds of square miles. Census blocks cover all territory in the United States, Puerto Rico, and the Island areas. Blocks do not cross the boundaries of any entity for which the Census Bureau tabulates data. (See Figures 1 and 2).

Census Block Numbers (2010 Geography)—Census 2010 blocks are numbered uniquely within the 2010 boundaries of each state/county/census tract with a 4-character census block number. The first character of the tabulation block number identifies the block group. A block number can only be unique by using the decennial census state, county, census tract, and block or STATEFP10 + COUNTYFP10 + TRACTCE10 + BLOCKCE10. There is no consistency in block numbers from census to census.

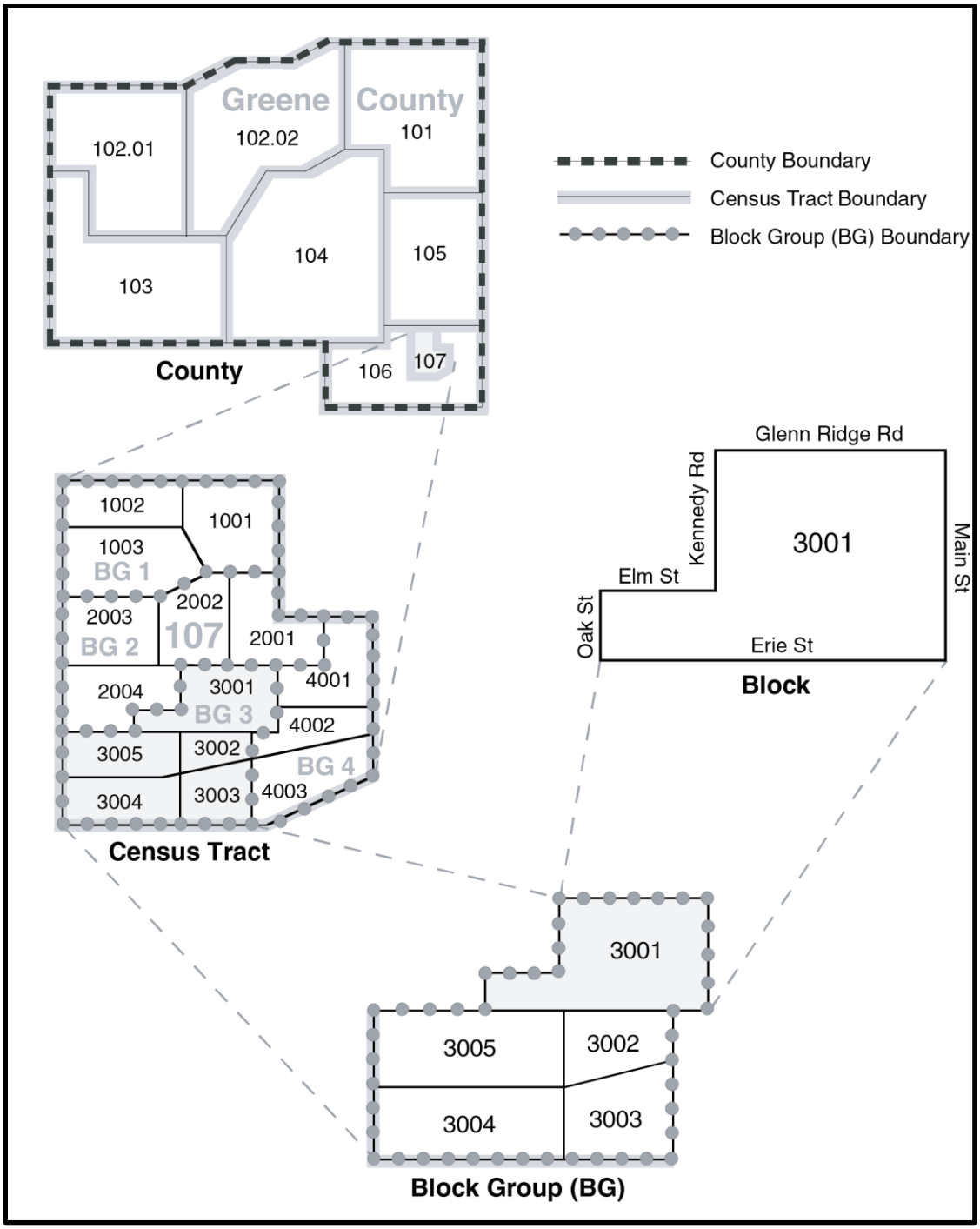

Figure 1: Geographic Relationships - Small Area Statistical Entities; County-Census Tract-Block Group-Block

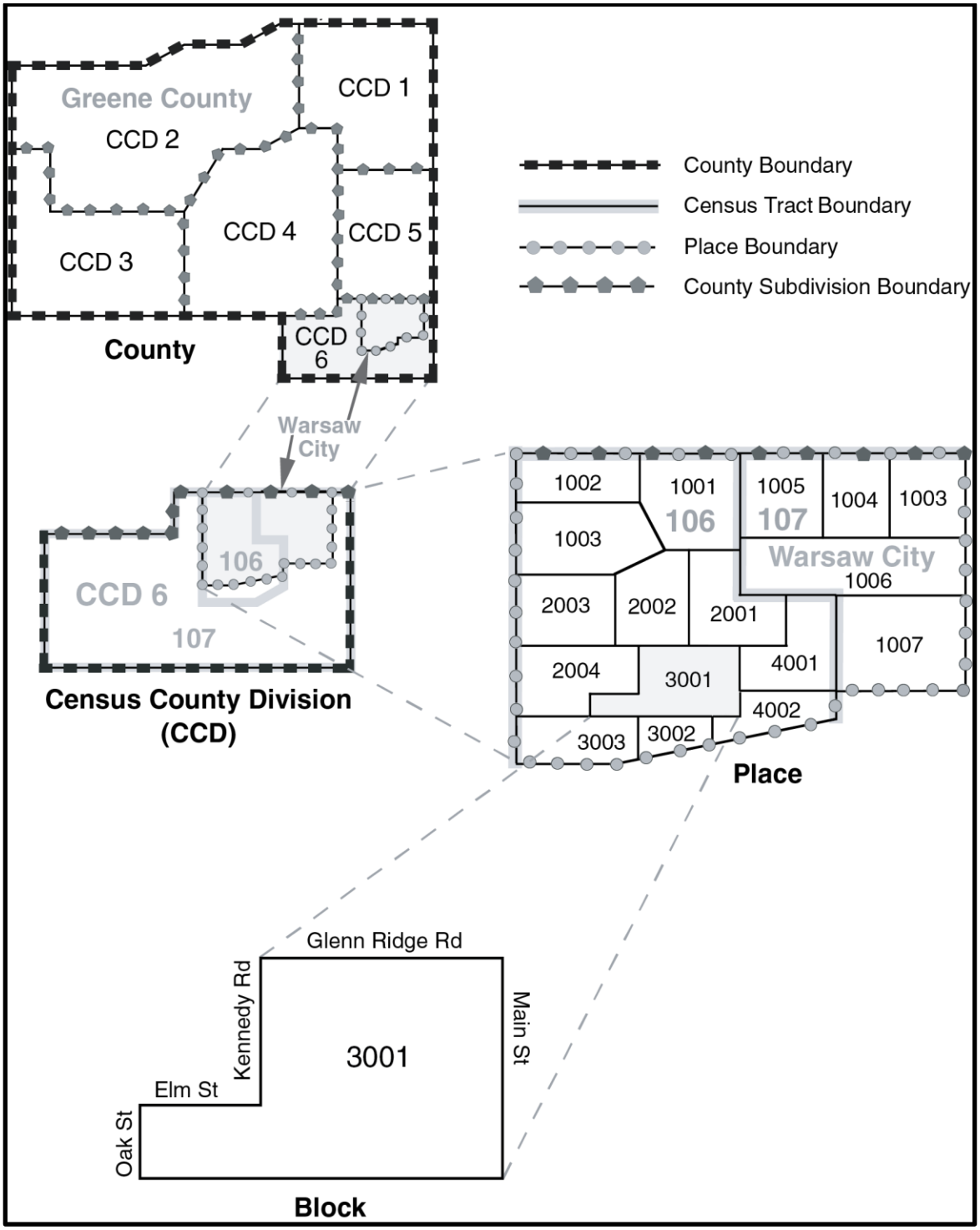

Figure 2: Geographic Relationships - Legal and Statistical Entities; County-County Subdivision-Place-Block

3.2.1 Block State-based Shapefile Record Layout (2010 Geography)

File Name: tl_2019_<state FIPS>_tabblock10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census tract code
BLOCKCE10	4	String	2010 Census tabulation block number
GEOID10	15	String	Census block identifier; a concatenation of 2010 Census state FIPS code, 2010 Census county FIPS code, 2010 Census tract code, and 2010 Census block number
NAME10	10	String	2010 Census tabulation block name; a concatenation of 'Block' and the tabulation block number
MTFCC10	5	String	MAF/TIGER feature class code (G5040)
UR10	1	String	2010 Census urban/rural indicator
UACE10	5	String	2010 Census urban area code
UATYPE	1	String	2010 Census urban area type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

3.3 Block Groups

Block group geography and attributes are available in the following shapefile:

Block Group State-based Shapefile (Current)

Standard block groups are clusters of blocks within the same census tract that have the same first digit of their 4-character census block number. For example, blocks 3001, 3002, 3003… 3999 in census tract 1210.02 belong to Block Group 3. Due to boundary and feature changes that occur throughout the decade, current block groups do not always maintain these same block number to block group relationships. For example, block 3001 might move due to a change in the census tract boundary. Even if the block is no longer in block group 3, the block number (3001) will not change. However, the GEOID for

that block, identifying block group 3, would remain the same in the attribute information in the TIGER/Line Shapefiles because block GEOIDs are always built using the decennial geographic codes.

Block groups delineated for the 2010 Census generally contain between 600 and 3,000 people. Local participants delineated most block groups as part of the Census Bureau's Participant Statistical Areas Program (PSAP). The Census Bureau delineated block groups only where a local or tribal government declined to participate or where the Census Bureau could not identify a potential local participant.

A block group usually covers a contiguous area. Each census tract contains at least one block group and block groups are uniquely numbered within census tract. Within the standard census geographic hierarchy, block groups never cross county or census tract boundaries, but may cross the boundaries of county subdivisions, places, urban areas, voting districts, congressional districts, and American Indian, Alaska Native, and Native Hawaiian areas.

Block groups have a valid range of 0 through 9. Block groups beginning with a zero generally are in coastal and Great Lakes water and territorial seas. Rather than extending a census tract boundary into the Great Lakes or out to the 3-mile territorial sea limit, the Census Bureau delineated some census tract boundaries along the shoreline or just offshore.

For more information about the PSAP, please visit: https://www.census.gov/programs-surveys/decennial-census/about/psap.html.

3.3.1 Block Group State-based Shapefile Record Layout (Current)

File Name: tl_2019_<state FIPS>_bg.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
TRACTCE	6	String	Current census tract code
BLKGRPCE	1	String	Current block group number
GEOID	12	String	Census block group identifier; a concatenation of the current state FIPS code, county FIPS code, census tract code, and block group number.
NAMELSAD	13	String	Current translated legal/statistical area description and the block group number
MTFCC	5	String	MAF/TIGER feature class code (G5030)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point

Field	Length	Type	Description
INTPTLON	12	String	Current longitude of the internal point

3.4 Census Tracts

Census tract geography and attributes are available in the following shapefile:

Census Tract State-based Shapefile (Current)

Census tracts are small, relatively permanent statistical subdivisions of a county or equivalent entity, and are reviewed and updated by local participants prior to each decennial census as part of the Census Bureau's Participant Statistical Areas Program (PSAP). The Census Bureau updates census tracts in situations where no local participant existed or where local or tribal governments declined to participate. The primary purpose of census tracts is to provide a stable set of geographic units for the presentation of decennial census data.

Census tracts generally have a population size between 1,200 and 8,000 people with an optimum size of 4,000 people. The spatial size of census tracts varies widely depending on the density of settlement. Ideally, census tract boundaries remain stable over time to facilitate statistical comparisons from census to census. However, physical changes in street patterns caused by highway construction, new development, and so forth, may require boundary revisions. In addition, significant changes in population may result in splitting or combining census tracts.

Census tract boundaries generally follow visible and identifiable features. They may follow legal boundaries such as minor civil division (MCD) or incorporated place boundaries in some states to allow for census tract-to-governmental unit relationships where the governmental boundaries tend to remain unchanged between censuses. State and county boundaries always are census tract boundaries in the standard census geographic hierarchy.

In a few rare instances, a census tract may consist of noncontiguous areas. These noncontiguous areas may occur where the census tracts are coextensive with all or parts of legal entities that are themselves noncontiguous.

Census Tract Codes and Numbers—Census tract numbers have up to a 4-character basic number and may have an optional 2-character suffix; for example, 1457.02. The census tract numbers (used as names) eliminate any leading zeroes and append a suffix only if required. The 6-character numeric census tract codes, however, include leading zeroes and have an implied decimal point for the suffix. Census tract codes range from 000100 to 998999 and are unique within a county or equivalent area.

The Census Bureau assigned a census tract code of 9900 to represent census tracts delineated to cover large bodies of water. In addition, census tract codes in the 9400s represent American Indian Areas and codes in the 9800s represent special land use areas.

The Census Bureau uses suffixes to help identify census tract changes for comparison purposes. Local participants have an opportunity to review the existing census tracts before each census. If local participants split a census tract, the split parts usually retain the basic number, but receive different suffixes. In a few counties, local participants request major changes to, and renumbering of, the census tracts. Changes to individual census tract boundaries usually do not result in census tract numbering changes.

Relationship to Other Geographic Entities—Within the standard census geographic hierarchy, census tracts never cross state or county boundaries, but may cross the boundaries of county subdivisions, places, urban areas, voting districts, congressional districts, and American Indian, Alaska Native, and Native Hawaiian areas.

Census Tract Numbers and Codes:

- 000100 to 989900—Basic number range for census tracts
- 990000 to 990099—Basic number for census tracts in water areas
- 990100 to 998900—Basic number range for census tracts

3.4.1 Census Tract State-based Shapefile Record Layout (Current)

File Name: tl_2019_<state FIPS>_tract.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
TRACTCE	6	String	Current census tract code
GEOID	11	String	Census tract identifier; a concatenation of Current state FIPS code, county FIPS code, and census tract code
NAME	7	String	Current census tract name, this is the census tract code converted to an integer or integer plus 2-character decimal if the last two characters of the code are not both zeros.
NAMELSAD	20	String	Current translated legal/statistical area description and the census tract name
MTFCC	5	String	MAF/TIGER feature class code (G5020)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.5 Congressional Districts

Congressional district geography and attributes are available in the following shapefile:

116th Congressional District National Shapefile

Congressional districts are the 435 areas from which people are elected to the U.S. House of Representatives and the 5 areas with nonvoting delegates from state equivalents. After the apportionment of congressional seats among the states based on decennial census population counts, each state is responsible for establishing the boundaries of congressional districts. All congressional districts in a state should be as equal in population as is practicable.

The 2019 TIGER/Line Shapefiles contain the 116th Congressional Districts. All congressional districts appearing in the 2019 TIGER/Line Shapefiles reflect the information provided to the Census Bureau by the states by May 1, 2018. The 116th Congressional District shapefile contains the areas in effect from January 2019 to 2021.

The following states had changes for the 116th Congress:

- Colorado
- Minnesota
- Pennsylvania

Each state has a minimum of one representative in the U.S. House of Representatives. The District of Columbia, Puerto Rico, American Samoa, Guam, and the U.S. Virgin Islands have a non-voting delegate in the Congress.

Congressional District Codes—Congressional districts are identified by a 2-character numeric FIPS code. Congressional districts are numbered uniquely within state. The District of Columbia, Puerto Rico and the Island areas have the code of 98, which identifies their status with respect to representation in Congress:

- 01 to 53—Congressional district codes
- 00—At large (single district for state)
- 98—Nonvoting delegate

Other Notes on Congressional Districts

- The state of Maryland adjusted the 2010 Census P.L. [94-171] redistricting data by reallocating state prisoner populations to their last known residence. Information on this adjustment is available by visiting http://planning.maryland.gov/redistricting/.
- The state of Hawaii adjusted the 2010 Census P.L. [94-171] redistricting data to remove non-resident military personnel and non-resident students. Information on this adjustment is available at http://elections.hawaii.gov/about-us/boards-and-commissions/reapportionment/.

3.5.1 116th Congressional District National Shapefile Record Layout

File Name: tl_2019_us_cd116.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
CD116FP	2	String	116th congressional district FIPS code
GEOID	4	String	116th congressional district identifier; a concatenation of current state FIPS code and the 116th congressional district FIPS code

Field	Length	Type	Description
NAMELSAD	41	String	Current name and the translated legal/statistical area description for congressional district
LSAD	2	String	Current legal/statistical area description code for congressional district
CDSESSN	3	String	Congressional session code
MTFCC	5	String	MAF/TIGER feature class code (G5200)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.6 Consolidated Cities

Consolidated city geography and attributes are available in the following shapefile:

Consolidated City State-based Shapefile (Current)

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. This action results in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. When one or more other incorporated places in the county or MCD is included in the consolidated government but continues to function as separate government, the primary incorporated place is referred to as a consolidated city. The Census Bureau classifies the separately incorporated places within the consolidated city as place entities and creates a separate place (balance) record for the portion of the consolidated city not within any other place. The 2019 Census TIGER/Line Shapefiles represent consolidated cities with a 5-character numeric FIPS code and an 8-character National Standard (GNIS) code.

Consolidated City (Balance) Portions refer to the areas of a consolidated city not included in another separately incorporated place. For example, Butte-Silver Bow, MT, is a consolidated city (former Butte city and Silver Bow County) that includes the separately incorporated municipality of Walkerville city. The area of the consolidated city that is not in Walkerville city is assigned to Butte-Silver Bow (balance). The name always includes the “(balance)” identifier. Balance portions of consolidated cities are included in the Place shapefiles.

3.6.1 Consolidated City Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_concity.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
CONCTYFP	5	String	Current consolidated city FIPS code
CONCTYNS	8	String	Current consolidated city GNIS code
GEOID	7	String	Consolidated city identifier; a concatenation of current state FIPS code and consolidated city FIPS code
NAME	100	String	Current consolidated city name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for consolidated city
LSAD	2	String	Current legal/statistical area description code for consolidated city
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G4120)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.7 Counties and Equivalent Entities

County and equivalent entity geography and attributes are available in the following shapefile:

County and Equivalent Entity National Shapefile (Current)

Counties and equivalent entities are primary legal divisions of states. In most states, these entities are termed “counties.” In Louisiana, these divisions are known as “parishes.” In Alaska, the equivalent entities are the organized boroughs, as well as census areas in the unorganized borough. The state of Alaska and the Census Bureau cooperatively delineate these census areas for statistical purposes. In four states (Maryland, Missouri, Nevada, and Virginia), there are one or more incorporated places that are independent of any county organization and thus constitute primary divisions of their states. These incorporated places are known as independent cities and are treated as county equivalent entities for purposes of data presentation. The District of Columbia and Guam have no primary divisions and each area is considered a county equivalent entity for purposes of data presentation. The Census Bureau

treats the following entities as equivalents of counties for purposes of data presentation: municipios in Puerto Rico, districts and islands in America Samoa, municipalities in the Commonwealth of the Northern Mariana Islands, and islands in the U.S. Virgin Islands. Each county or statistically equivalent entity is assigned a 3-character FIPS code that is unique within a state, as well as an 8-character National Standard (GNIS) code.

The 2019 TIGER/Line Shapefiles reflect available governmental unit boundaries of the counties and equivalent entities as of January 1, 2019.

Core-based Statistical Area (CBSA) Codes – The 2019 county and equivalent entity shapefiles also contain fields with codes for combined statistical area, metropolitan or micropolitan statistical area, and metropolitan division. Counties form the building blocks for CBSAs, and a user can merge county records to form these areas without having to acquire the individual CBSA shapefiles.

3.7.1 County and Equivalent Entity National Shapefile Record Layout (Current)

File Name: tl_2019_us_county.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
COUNTYNS	8	String	Current county GNIS code
GEOID	5	String	County identifier; a concatenation of Current state FIPS code and county FIPS code
NAME	100	String	Current county name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for county
LSAD	2	String	Current legal/statistical area description code for county
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G4020)
CSAFP	3	String	Current combined statistical area code
CBSAFP	5	String	Current metropolitan statistical area/micropolitan statistical area code
METDIVFP	5	String	Current metropolitan division code
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area

Field	Length	Type	Description
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.8 County Subdivisions

County subdivision geography and attributes are available in the following shapefile:

County Subdivision State-based Shapefile (Current)

County subdivisions are the primary divisions of counties and their equivalent entities for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories. They may represent legal or statistical entities. The 2019 TIGER/Line Shapefiles contain a 5-character FIPS code field for county subdivisions and an 8-character National Standards (GNIS) code.

Legal Entity Definition

Minor Civil Divisions (MCDs) are the primary governmental or administrative divisions of a county in many states. MCDs represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCDs include areas designated as American Indian reservations, assessment districts, barrios, barrios-pueblo, boroughs, census subdistricts, charter townships, commissioner districts, counties, election districts, election precincts, gores, grants, locations, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisor's districts, towns, and townships. The Census Bureau recognizes MCDs in 29 states, Puerto Rico, and the Island areas. The District of Columbia has no primary divisions, and the Census Bureau treats the incorporated place of Washington as an MCD equivalent for statistical purposes. In 23 states, all or some incorporated places are not part of any MCD. These places also serve as primary legal county subdivisions and have a FIPS MCD code that is the same as the FIPS place code. The GNIS codes also match for those entities. In other states, incorporated places are part of the MCDs in which they are located or the pattern is mixed—some incorporated places are independent of MCDs and others are included within one or more MCDs. The MCDs in 12 states (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments that generally can perform the same governmental functions as incorporated places. The Census Bureau presents data for these MCDs in all products that contain place data.

In New York and Maine, American Indian reservations (AIRs) exist outside the jurisdiction of any town (MCD) and thus serve as the equivalent of MCDs for purposes of data presentation.

Statistical Entity Definitions

Census County Divisions (CCDs) are areas delineated by the Census Bureau in cooperation with state and local officials for statistical purposes. CCDs are not governmental units and have no legal functions. CCD boundaries usually follow visible features and, in most cases, coincide with census tract boundaries. The Census Bureau gives each CCD a name based on a place, county, or well-known local name to identify its location. CCDs exist where:

- There are no legally established minor civil divisions (MCDs)

- The legally established MCDs do not have governmental or administrative purposes
- The boundaries of the MCDs change frequently
- The MCDs are not generally known to the public

The Census Bureau has established CCDs for the following 20 states:

Alabama	Arizona	California	Colorado	Delaware	Florida
Georgia	Hawaii	Idaho	Kentucky	Montana	Nevada
New Mexico	Oklahoma	Oregon	South Carolina	Texas	Utah
Washington	Wyoming				

Census Subareas are statistical subdivisions of boroughs, city and boroughs, municipalities, and census areas, the latter of which are the statistical equivalent entities for counties in Alaska. The state of Alaska and the Census Bureau cooperatively delineate the census subareas to serve as the statistical equivalents of MCDs.

Unorganized Territories (UTs) have been defined by the Census Bureau in 9 minor civil division (MCD) states and in American Samoa, where portions of counties or equivalent entities are not included in any legally established MCD or incorporated place. The Census Bureau recognizes such separate pieces of territory as one or more separate county subdivisions for census purposes. It assigns each unorganized territory a descriptive name, followed by the designation "unorganized territory" and county subdivision FIPS and GNIS codes. The Census Bureau recognizes unorganized territories in the following states and equivalent areas:

Arkansas	Indiana	Iowa	Maine	Minnesota	New York
North Carolina	North Dakota	South Dakota			

Undefined County Subdivisions—in water bodies, primarily Great Lakes waters and territorial sea, legal county subdivisions do not extend to cover the entire county. For these areas, the Census Bureau created a county subdivision with a FIPS code of 00000 and GNIS code of 00000000 named "county subdivision not defined." The following states and equivalent areas have these county subdivisions:

Connecticut	Illinois	Indiana	Maine	Massachusetts	Michigan
Minnesota	New Hampshire	New Jersey	New York	Ohio	Pennsylvania
Rhode Island	Wisconsin	Puerto Rico			

New England City and Town Area (NECTA) Codes — The 2019 county subdivision shapefiles also contain fields with codes for Combined New England city and town area, New England city and town area, and New England city and town area division. The NECTAs consist of county subdivisions in New England only, and users can merge county subdivision records to form these areas without acquiring the individual NECTA shapefiles.

3.8.1 County Subdivision State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_cousub.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code

Field	Length	Type	Description
COUSUBFP	5	String	Current county subdivision FIPS code
COUSUBNS	8	String	Current county subdivision GNIS code
GEOID	10	String	County subdivision identifier; a concatenation of current state FIPS code, county FIPS code, and county subdivision FIPS code.
NAME	100	String	Current county subdivision name
NAMELSAD	100	String	Current name and the translated legal/statistical area description code for county subdivision
LSAD	2	String	Current legal/statistical area description code for county subdivision
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G4040)
CNECTAFP	3	String	Current combined New England city and town area code
NECTAFP	5	String	Current New England city and town area code
NCTADVFP	5	String	Current New England city and town area division code
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.9 Estates

Estate features and attributes are available in the United States Virgin Islands in the following shapefile:

Estate State-based Shapefile (Current)

Estates are subdivisions of the three major islands in the United States Virgin Islands (USVI). The estates have legally defined boundaries and are generally smaller in area than the Census Subdistricts (county subdivisions), but do not necessarily nest within these districts. The boundaries of the estates are primarily those of the former agricultural plantations that existed at the time Denmark transferred the islands to the United States in 1917. The names and boundaries of the estates are in common usage by residents and in government administration. Estate boundaries are as of January 1, 2010, and were

provided to the Census Bureau by the USVI Office of the Lieutenant Governor. The 2010 and 2011 TIGER/Line products contain estate data in the SubMinor Civil Division (submcd) shapefiles.

3.9.1 Estate Shapefile (U.S. Virgin Islands Only) Record Layout (Current)

File Name: tl_2019_78_estate.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
ESTATEFP	5	String	Current estate FIPS code
ESTATENS	8	String	Current estate GNIS code
GEOID	10	String	Estate identifier; a concatenation of current state FIPS code, county FIPS code, and estate FIPS code
NAME	100	String	Current estate name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for estate
LSAD	2	String	Current legal/statistical area description code for estate
CLASSFP	2	String	Current FIPS class code
MTFCC	5	String	MAF/TIGER feature class code (G4050)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.10 Hydrography (Area and Linear)

Hydrography features and attributes are available in the following shapefiles:

Area Hydrography County-based Shapefile
Linear Hydrography County-based Shapefile

The area hydrography shapefile contains the geometry and attributes of both perennial and intermittent area hydrography features, including ponds, lakes, oceans, swamps, glaciers, and the area covered by large streams represented as double-line drainage. Single-line drainage water features exist in the all lines shapefile and the linear hydrography shapefile.

The linear hydrography shapefile contains all linear features with “H” (Hydrography) type MTFCCs in the MAF/TIGER database by county. The Census Bureau provides these shapefiles at a county geographic extent and in linear elemental feature geometry. The linear hydrography shapefile includes streams/rivers, braided streams, canals, ditches, artificial paths, and aqueducts. A linear hydrography feature may include edges with both perennial and intermittent persistence.

Single-line drainage water features include artificial path features that run through double-line drainage features such as rivers and streams and serve as a linear representation of these features. The artificial path features may correspond to those in the USGS National Hydrographic Dataset (NHD). However, in many cases the features do not match NHD equivalent feature and will not carry the NHD metadata codes.

Shorelines for area hydrography exist in the all lines shapefiles and have MTFCCs of either “P0002” (shoreline of perennial water feature) or “P0003” (shoreline of intermittent water feature).

3.10.1 Area Hydrography County-based Shapefile Record Layout

File Name: tl_2019_<state-countyFIPS>_areawater.shp

Field	Length	Type	Description
ANSICODE	8	String	Official code for the water body for use by federal agencies for data transfer and dissemination, if applicable
HYDROID	22	String	Area hydrography identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
ALAND	14	Number	Land area
AWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

3.10.2 Linear Hydrography County-based Shapefile Record Layout

File Name: tl_2019_<state-countyFIPS>_linearwater.shp

Field	Length	Type	Description
ANSICODE	8	String	Official code for use by federal agencies for data transfer and dissemination, if applicable
LINEARID	22	String	Linear hydrography identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
ARTPATH	1	String	Artificial path flag
MTFCC	5	String	MAF/TIGER feature class code

3.11 Landmarks (Area and Point)

Landmark features and attributes are available in the following shapefiles:

Area Landmark State-based Shapefile
Point Landmark State-based Shapefile

The Census Bureau includes landmarks in the MAF/TIGER database (MTDB) to locate special features and help enumerators during field operations. Some of the more common landmark types include area landmarks such as airports, cemeteries, parks, and educational facilities and point landmarks such as schools and churches.

The Census Bureau adds landmark features to the database on an as-needed basis and makes no attempt to ensure that all instances of a particular feature were included. The landmarks were not used to build or maintain the 2010 Census address list, and the absence of a landmark such as a hospital or prison does not mean that associated living quarters were excluded from the 2010 Census enumeration.

Area landmark and area water features can overlap; for example, a park or other special land-use feature may include a lake or pond. In this case, the polygon covered by the lake or pond belongs to a water feature and a park landmark feature. Other kinds of landmarks can overlap as well. Area landmarks can contain point landmarks, but TIGER/Line Shapefiles do not contain links to these features.

All landmarks have a MAF/TIGER feature class code (MTFCC) that identifies the type of feature and may or may not have a specific feature name. A full MTFCC list with definitions for the 2019 TIGER/Line Shapefiles is provided in Appendix E. Each landmark has a unique area landmark identifier (AREAID) or point landmark identifier (POINTID) value.

3.11.1 Area Landmark State-based Shapefile Record Layout

File Name: tl_2019_<stateFIPS>_arealm.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
ANSICODE	8	String	Official code for the landmark for use by federal agencies for data transfer and dissemination
AREAID	22	String	Area landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
ALAND	14	Number	Land area
AWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point
PARTFLG	1	String	Part Flag identifying if all or part of the entity is within the file

3.11.2 Point Landmark State-based Shapefile Record Layout

File Name: tl_2019_<stateFIPS>_pointlm.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
ANSICODE	8	String	Official code for the point landmark for use by federal agencies for data transfer and dissemination, if applicable
POINTID	22	String	Point landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix type, base name, and suffix type with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code

3.12 Linear Features

Linear elemental features are the spatial representation of 1-dimensional roads, hydrography, railroads, and other miscellaneous features in the MAF/TIGER database. A linear elemental feature can span one edge or multiple connecting edges that share a common name and feature classification (MTFCC).

More than one linear elemental feature can share the same edge or group of connected edges. For example, an edge may be associated with a linear feature called Oak Street. This same edge may be one of several edges also associated with another linear feature called State Highway 57. The edge in question has two names: Oak Street and State Highway 57. The Census Bureau designates one of these names as primary and the others as alternates; usually the common street name (Oak Street) will be primary.

The MAF/TIGER database breaks/ends linear elemental features when the feature name changes. All spelling differences result in a new feature. Features will also break at county boundaries, changes in primary/alternate designation, MTFCC, and gaps in the geometry.

Linear features and attributes are available in the following shapefiles.

3.12.1 All Lines

Each all lines shapefile describes the universe of edges that bound or are included within a county or equivalent entity. The shapefile describes the geometry of each edge along with descriptive attributes and unique identification numbers. These identification numbers provide the means for linking the edges to alternate features such as their names, address ranges, and adjacent faces.

The all lines features and attributes are in the following shapefile:

All Lines County-based Shapefile

The all lines shapefile contains visible linear feature edges such as roads, railroads, and hydrography, as well as non-feature edges and non-visible boundaries. Additional attribute data associated with the edges are available in relationship files that users must download separately.

The all lines shapefile contains the geometry and attributes of each topological primitive edge. Each edge has a unique TLID (permanent edge identifier) value. An edge's left and right faces are identified by the TFIDL (permanent face identifier on the left side of the edge) and TFIDR (permanent face identifier on the right side of the edge) attributes, which link to the TFID attribute in the Topological Faces shapefile.

The left and right side of an edge is determined by the order of the points that form the edge. An edge is oriented from the start node to the end node. If a person stands on an edge at the start node and faces the end node, data listed in the fields carrying a right qualifier to the right of the edge. Data users can employ GIS software to plot the edges as directional vectors with arrows showing the orientation of edges.

In the MAF/TIGER database, edges may represent several types of features. The series of indicator flags (HYDROFLG, ROADFLG, RAILFLG, and OLFFLG) indicate the classes of features that share the edge. For example, a road may have embedded railroad tracks; the corresponding edge will have both the ROADFLG (road feature indicator) and RAILFLG (rail feature indicator) set. Generally, certain feature types appear together on the same edge:

Road and Rail—roads with adjacent tracks, tracks embedded in roadways or tracks located in the median
Rail and Other Linear Feature—rail features located on dams and levees
Road and Other Linear Feature—road features located on dams and levees

The MAF/TIGER feature class code (MTFCC) identifies the specific code for the primary feature on the edge. For edges that represent roads in combination with other features, the MTFCC in the all lines shapefile will reflect the road feature.

3.12.1.1 All Lines County-based Shapefile Record Layout

File Name: tl_2019_<state-county>_edges.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
COUNTYFP	3	String	County FIPS code
TLID	10	Integer	Permanent edge ID
TFIDL	10	Integer	Permanent face ID on the left of the edge
TFIDR	10	Integer	Permanent face ID on the right of the edge
MTFCC	5	String	MAF/TIGER feature class code of the primary feature for the edge
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier with a space between each expanded text field (as available)
SMID	22	String	Spatial metadata identifier
LFROMADD	12	String	From house number associated with the most inclusive address range on the left side of the edge
LTOADD	12	String	To house number associated with the most inclusive address range on the left side of the edge
RFROMADD	12	String	From house number associated with the most inclusive address range on the right side of the edge
RTOADD	12	String	To house number associated with the most inclusive address range on the right side of the edge
ZIPL	5	String	ZIP code associated with the most inclusive address range on the left side

Field	Length	Type	Description
ZIPR	5	String	ZIP code associated with the most inclusive address range on the right side
FEATCAT	1	String	General feature classification category
HYDROFLG	1	String	Hydrography feature indicator
RAILFLG	1	String	Rail feature indicator
ROADFLG	1	String	Road feature indicator
OLFFLG	1	String	Other linear feature indicator
PASSFLG	1	String	Special passage flag
EXTTYP	1	String	Extension type
TTYP	1	String	Track type
DECKEDROAD	1	String	Decked road indicator
ARTPATH	1	String	Artificial path indicator
PERSIST	1	String	Hydrographic persistence flag
GCSEFLG	1	String	Short lines flag for geographic corridors
OFFSETL	1	String	Left offset flag
OFFSETR	1	String	Right offset flag
TNIDF	10	Integer	From TIGER node identifier
TNIDT	10	Integer	To TIGER node identifier

3.12.2 Coastline

The coastline boundary is available in the following shapefile:

Coastline National Shapefile

The coastline shapefile includes all features within the MTDB class "Coastline," distinguished by the MAF/TIGER feature classification code (MTFCC) L4150. The coastline included in this shapefile was delineated by the Census Bureau in the MAF/TIGER database based on water measurement class for display of statistical information only; its depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement and it is not a legal land description. The name assigned to each coastline feature is a short form of the name of the large body of water bordered by this coastline feature.

3.12.2.1 Coastline National Shapefile Record Layout

File Name: tl_2019_us_coastline.shp

Field	Length	Type	Description
NAME	100	String	Coastline Name
MTFCC	5	String	MAF/TIGER Feature Class Code of the primary feature for the edge

3.12.3 Roads

Linear road features and attributes are available in the following shapefiles:

Primary Roads National Shapefile
Primary and Secondary Roads State-based Shapefile
All Roads County-based Shapefile

Primary roads are generally divided limited-access highways within the Federal interstate highway system or under state management. Interchanges and ramps distinguish these roads, and some are toll highways. The Primary Roads shapefile contains all linear street features with a MTFCC of S1100 in the MAF/TIGER database. The Census Bureau provides these shapefiles at a national geographic extent and in linear elemental feature geometry.

The primary and secondary roads shapefile contains all linear street features with MTFCCs of S1100 or S1200 in the MAF/TIGER database. The Census Bureau provides these shapefiles at a state geographic extent and in linear elemental feature geometry. Secondary roads are main arteries, usually in the U.S. highway, state highway, or county highway system. These roads have one or more lanes of traffic in each direction, may or may not be divided, and usually have at-grade intersections with many other roads and driveways. They often have both a local name and a route number.

The all roads shapefile contains all linear street features with “S” (Street) type MTFCCs in the MAF/TIGER database. These include primary roads, secondary roads, local neighborhood roads, rural roads, city streets, vehicular trails (4WD), ramps, service drives, walkways, stairways, alleys, and private roads. The Census Bureau provides these shapefiles at a county geographic extent and in linear elemental feature geometry.

The Census Bureau works continuously to improve the accuracy of the features in the MAF/TIGER database, including a recent focus on highway review. However, some street features may have a misclassified MTFCC. This means that there could be gaps in features in the primary roads or the primary and secondary roads shapefiles, if a segment of the feature was misclassified as an S1400 (a local neighborhood road, rural road, or city street) instead of an S1100 or S1200.

The all roads shapefile will contain multiple overlapping road segments where a segment is associated with more than one road feature. For example, if a road segment is associated with US Route 36 and State Highway 7 and 28th Street, the all roads shapefile will contain three spatially coincident segments, each with a different name. The all lines shapefile contains the set of unique road segments for each county, along with other linear features. Note that the LINEARID field can link the linear features back to the Featnames table. From there the TLID can relate the feature back to the all lines shapefile.

3.12.3.1 Primary Roads National Shapefile Record Layout

File Name: tl_2019_us_primaryroads.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field; display name.
RTTYP	1	String	Route type code
MTFCC	5	String	MAF/TIGER feature class code

3.12.3.2 Primary and Secondary Roads State-based Shapefile Record Layout

File Name: tl_2019_<stateFIPS>_prisecroads.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
RTTYP	1	String	Route type code
MTFCC	5	String	MAF/TIGER feature class code

3.12.3.3 All Roads County-based Shapefile Record Layout

File Name: tl_2019_<state-countyFIPS>_roads.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
RTTYP	1	String	Route type code
MTFCC	5	String	MAF/TIGER feature class code

3.12.4 Address Ranges

Linear address range features and attributes are available in the following layer:

Address Range Feature County-based Shapefile

The address range feature shapefile contains the geospatial edge geometry and attributes of all unsuppressed address ranges for a county or county equivalent area. The term "address range" refers to the collection of all possible structure house numbers, from the first structure house number to the last structure house number of a specified parity along an edge side relative to the direction of the edge. All of the TIGER/Line address range files contain potential address ranges, not individual addresses. Potential ranges include the full range of possible structure numbers even though the actual structures may not exist. The Census Bureau suppresses single-address address ranges in order to maintain the confidentiality of the addresses they describe, and does not currently provide any address ranges for the Island areas.

The address range feature shapefile contains all of the address range to street name relationships in the address range feature name relationship file. The address range feature shapefile also contains all possible relationships between the address range relationship table and the all lines shapefile. Including all of this data results in better geocoding match rates compared with using the all lines shapefile for geocoding. The all lines shapefile only contains the most inclusive address range associated with each side of a street edge and the primary street name assigned to the edge.

3.12.4.1 Address Range Feature County-based Shapefile Record Layout

File Name: tl_2019_<state-countyFIPS>_addrfeat.shp

Field	Length	Type	Description
TLID	10	Integer	permanent edge ID
TFIDL	10	Integer	Permanent face ID on the left of the edge
TFIDR	10	Integer	Permanent face ID on the right of the edge
ARIDL	22	String	Left side Address range identifier
ARIDR	22	String	Right side Address range identifier
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
LFROMHN	12	String	From House Number associated with the address range on the left side of the edge; SIDE=L
LTOHN	12	String	To House Number associated with the address range on the left side of the edge; SIDE=L

Field	Length	Type	Description
RFROMHN	12	String	From House Number associated with the address range on the right side of the edge; SIDE=R
RTOHN	12	String	To House Number associated with the address range on the right side of the edge; SIDE=R
ZIPL	5	String	ZIP code associated with the left address range
ZIPR	5	String	ZIP code associated with the right address range
EDGE_MTFCC	5	String	Primary MAF/TIGER feature class code of related edge record
ROAD_MTFCC	5	String	MAF/TIGER feature class code of related linear feature record
PARITYL	1	String	Left side Address Range Parity
PARITYR	1	String	Right side Address Range Parity
PLUS4L	4	String	Left side ZIP+4 Code
PLUS4R	4	String	Right side ZIP+4 Code
LFROMTYP	1	String	Left side From address range end type. This field is populated if the value is 'I' and the address range is an imputed value calculated by the Census Bureau at a split point. If the value is anything other than 'I', the field is blank.
LTOTYP	1	String	Left side To address range end type. This field is populated if the value is 'I' and the address range is an imputed value calculated by the Census Bureau at a split point. If the value is anything other than 'I', the field is blank.
RFROMTYP	1	String	Right side From address range end type. This field is populated if the value is 'I' and the address range is an imputed value calculated by the Census Bureau at a split point. If the value is anything other than 'I', the field is blank.
RTOTYP	1	String	Right side To address range end type. This field is populated if the value is 'I' and the address range is an imputed value calculated by the Census Bureau at a split point. If the value is anything other than 'I', the field is blank.
OFFSETL	1	String	Flag to designate if left side address range is on offset edge
OFFSETR	1	String	Flag to designate if right side address range is on offset edge

3.12.5 Railroads

Linear railroad features and attributes are available in the following layer:

Railroads National Shapefile

The railroad shapefile includes spur lines and rail yards, mass transit rail lines such as carlines, streetcar track, monorail or other mass transit rail, and special purpose rail lines such as cog rail lines, incline rail lines, and trams. The railroad shapefile contains all linear rail features with "R" (Rail) type MTFCCs in the MAF/TIGER database. The Census Bureau provides these shapefiles at a national geographic extent and in a linear elemental feature geometry.

3.12.5.1 Railroads National Shapefile Record Layout

File Name: tl_2019_us_rails.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code

3.13 Metropolitan and Micropolitan Statistical Areas and Related Statistical Areas

Metropolitan and micropolitan statistical area and related statistical area geography and attributes are available in the following shapefiles:

Combined New England City and Town Area (CNECTA) National Shapefile (Current)
Combined Statistical Area (CSA) National Shapefile (Current)
Metropolitan Division National Shapefile (Current)
Core Based Statistical Areas (CBSAs) National Shapefile (Metropolitan and Micropolitan Statistical Areas) (Current)
New England City and Town Area (NECTA) National Shapefile (Current)
New England City and Town Area (NECTA) Division National Shapefile (Current)

On September 14, 2018, the U.S. Office of Management and Budget (OMB) announced updates to metropolitan and micropolitan statistical area delineations, superseding previous delineations, and based on official standards published in the Federal Register on June 28, 2010. The updates are based on the application of the 2010 standards to 2010 Census and 2011-2015 American Community Survey data (as well as Population Estimates Program data). OMB, with the advice of the interagency Metropolitan Area Standards Review Committee developed these standards to provide a nationally consistent set of geographic entities for the United States and Puerto Rico. OMB has not delineated metropolitan or micropolitan geography in the Island Areas.

A metropolitan or micropolitan statistical area contains a core area with a substantial population nucleus, as well as adjacent communities having a high degree of economic and social integration with that core. The term “core based statistical area” (CBSA) became effective in 2000 and refers collectively to metropolitan and micropolitan statistical areas.

Each metropolitan statistical area must have at least one urbanized area of 50,000 or more inhabitants. Each micropolitan statistical area must have at least one urban cluster of at least 10,000 but less than 50,000 inhabitants. The categorization of CBSAs as either metropolitan or micropolitan statistical areas is based on the population in the most populous (or dominant) core, not the total CBSA population or the total population of all (multiple) cores within the CBSA.

Counties or equivalent entities form the building blocks for metropolitan and micropolitan statistical areas. Central counties are those counties or equivalent entities in which at least 50 percent of the population resides within urban areas of 10,000 or more population, or that contain at least 5,000 people residing within a single urban area of 10,000 or more population. Additional, outlying counties that meet specified requirements of commuting to or from the central counties may be included in the CBSA.

In New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), OMB has delineated a county subdivision (generally city and town) based definition of CBSAs known as New England city and town areas (NECTAs). NECTAs have the same criteria as metropolitan and micropolitan statistical areas: either an urbanized area of 50,000 or more inhabitants, or an urban cluster of at least 10,000 and less than 50,000 inhabitants must be present to delineate a NECTA.

Combined Statistical Areas (CSAs) consist of two or more adjacent CBSAs that have significant employment interchanges. The CBSAs that combine to create a CSA retain separate identities within the larger CSAs. CSAs represent groupings of metropolitan and micropolitan statistical areas and should not be ranked or compared with individual metropolitan and micropolitan statistical areas.

Combined New England city and town areas (CNECTAs) consist of two or more adjacent NECTAs that have significant employment interchanges. The NECTAs that combine to create a CNECTA retain separate identities within the larger CNECTAs. CNECTAs represent groupings of NECTAs and should not be ranked or compared with individual NECTAs.

Metropolitan divisions are smaller groupings of counties or equivalent entities within a metropolitan statistical area that contains a single core with at least 2.5 million inhabitants. Not all metropolitan statistical areas with urbanized areas of this size will contain metropolitan divisions. A metropolitan division consists of one or more main counties that represent an employment center or centers, plus adjacent counties associated with the main county or counties through commuting ties. Because metropolitan divisions represent subdivisions of larger metropolitan statistical areas, it is not appropriate to rank or compare metropolitan divisions with metropolitan and micropolitan statistical areas. It would be appropriate to rank and compare metropolitan divisions.

New England city and town area (NECTA) divisions are smaller groupings of cities and towns within a NECTA that contains a single core with at least 2.5 million inhabitants. A NECTA division consists of a main city or town that represents an employment center, as well as adjacent cities and towns associated with the main city or town through commuting ties. Each NECTA division must contain a total population of 100,000 or more. Because NECTA divisions represent subdivisions of larger NECTAs, it is not appropriate to rank or compare NECTA divisions with NECTAs. It would be appropriate to rank and compare NECTA divisions.

OMB designates one or more principal cities within each metropolitan statistical area, micropolitan statistical area, and NECTA. Principal cities can be either incorporated places or census designated places (CDPs). In addition to identifying the more significant places in each metropolitan and micropolitan statistical area or NECTA in terms of population and employment, principal cities also title metropolitan

and micropolitan statistical areas, metropolitan divisions, CSAs, NECTAs, NECTA divisions, and combined NECTAs. A principal city may be only a part of a place if a portion of that place is outside of the metropolitan statistical area, micropolitan statistical area, or NECTA.

Core Based Statistical Area Codes—the metropolitan statistical areas, micropolitan statistical areas, NECTAs, metropolitan divisions, and NECTA divisions are identified using a 5-character code. The codes for metropolitan and micropolitan statistical areas and metropolitan divisions are assigned in alphabetical order by area title and fall within the 10000 to 59999 range. Metropolitan divisions are distinguished by a code ending in "4." NECTA and NECTA division codes fall within the 70000 to 79999 range and are assigned in alphabetical order by area title. NECTA divisions are distinguished by a code ending in "4." Combined statistical areas and combined NECTAs are identified using a 3-character code. Combined statistical area codes fall within the 100 to 599 range. Combined NECTA codes fall within the 700 to 799 range. Since CBSA codes are defined nationally, no additional codes are required to provide a unique entity identifier. Since lower level divisions nest within CBSA and CBSAs nest within combined statistical areas, the higher level codes exist in the record layouts for the subordinate entity types.

The metropolitan and micropolitan statistical area and related statistical area boundaries, names, and codes appearing in the 2019 TIGER/Line Shapefiles are those delineated as of September 2018 by OMB. For more information, please visit:
https://www.census.gov/programs-surveys/metro-micro.html.

3.13.1 Combined New England City and Town Area (CNECTA) National Shapefile Record Layout (Current)

File Name: tl_2019_us_cnecta.shp

Field	Length	Type	Description
CNECTAFP	3	String	Current combined New England city and town area code
GEOID	3	String	Current New England city and town area identifier; combined New England city and town area code
NAME	100	String	Current combined New England city and town area name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for combined New England city and town area
LSAD	2	String	Current legal/statistical area description code for combined New England city and town area
MTFCC	5	String	MAF/TIGER feature class code (G3200)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.13.2 Combined Statistical Area (CSA) National Shapefile Record Layout (Current)

File Name: tl_2019_us_csa.shp

Field	Length	Type	Description
CSAFP	3	String	Current combined statistical area code
GEOID	3	String	Combined statistical area identifier, combined statistical area code
NAME	100	String	Current combined statistical area name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for combined statistical area
LSAD	2	String	Current legal/statistical area description code for combined statistical area
MTFCC	5	String	MAF/TIGER feature class code (G3100)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.13.3 Metropolitan Division National Shapefile Record Layout (Current)

File Name: tl_2019_us_metdiv.shp

Field	Length	Type	Description
CSAFP	3	String	Current combined statistical area code
CBSAFP	5	String	Current metropolitan statistical area/micropolitan statistical area code
METDIVFP	5	String	Current metropolitan division code
GEOID	10	String	Metropolitan division identifier; a concatenation of metropolitan statistical area/micropolitan statistical area code and metropolitan division code
NAME	100	String	Current metropolitan division name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for metropolitan division

Field	Length	Type	Description
LSAD	2	String	Current legal/statistical area description code for metropolitan division
MTFCC	5	String	MAF/TIGER feature class code (G3120)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.13.4 Metropolitan Statistical Area/Micropolitan Statistical Area (CBSA) National Shapefile Record Layout (Current)

File Name: tl_2019_us_cbsa.shp

Field	Length	Type	Description
CSAFP	3	String	Current combined statistical area code, if applicable
CBSAFP	5	String	Current metropolitan statistical area/micropolitan statistical area code
GEOID	5	String	Metropolitan statistical area/micropolitan statistical area identifier, metropolitan statistical area/micropolitan statistical area code
NAME	100	String	Current metropolitan statistical area/micropolitan statistical area name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for metropolitan statistical area/micropolitan statistical area
LSAD	2	String	Current legal/statistical area description code for metropolitan statistical area/micropolitan statistical area
MEMI	1	String	Current metropolitan/micropolitan status indicator
MTFCC	5	String	MAF/TIGER feature class code (G3110)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point

Field	Length	Type	Description
INTPTLON	12	String	Current longitude of the internal point

3.13.5 New England City and Town Area (NECTA) National Shapefile Record Layout (Current)

File Name: tl_2019_us_necta.shp

Field	Length	Type	Description
CNECTAFP	3	String	Current combined New England city and town area code, if applicable
NECTAFP	5	String	Current New England city and town area code
GEOID	5	String	New England city and town area identifier, New England city and town area code
NAME	100	String	Current New England city and town area name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for New England city and town area
LSAD	2	String	Current legal/statistical area description code for New England city and town area
NMEMI	1	String	Current New England city and town area metropolitan/micropolitan status indicator
MTFCC	5	String	MAF/TIGER feature class code (G3210)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.13.6 New England City and Town Area (NECTA) Division National Shapefile Record Layout (Current)

File Name: tl_2019_us_nectadiv.shp

Field	Length	Type	Description
CNECTAFP	3	String	Current combined New England city and town area code, if applicable
NECTAFP	5	String	Current New England city and town area code

Field	Length	Type	Description
NCTADVFP	5	String	Current New England city and town area division code
GEOID	10	String	New England city and town area division identifier; a concatenation of New England city and town area code and New England city and town area division code
NAME	100	String	Current New England city and town area division name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for New England city and town area division
LSAD	2	String	Current legal/statistical area description code for New England city and town area division
MTFCC	5	String	MAF/TIGER feature class code (G3220)
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.14 Military Installations

Military installation geography and attributes are available in the following shapefile:

Military Installation National Shapefile

The Census Bureau includes landmarks such as military installations in the MAF/TIGER database to locate special features and help enumerators during field operations. The Census Bureau adds landmark features to the database on an as-needed basis and does not attempt to ensure that all instances of a particular feature are included. For additional information about area landmarks, please see Section 3.11, Landmarks (Area and Point).

This file does not include the three point landmarks identified as military installation features in the MAF/TIGER database. These point landmarks are included in the point landmark shapefile.

Although almost all military installations have assigned 8-character National Standard (GNIS) codes, the Census Bureau has not loaded most of this data into the MAF/TIGER database. The 2019 military shapefiles contain few values in the ANSICODE field.

3.14.1 Military Installation National Shapefile Record Layout

File Name: tl_2019_us_mil.shp

Field	Length	Type	Description
ANSICODE	8	String	Official code for the landmark for use by federal agencies for data transfer and dissemination
AREAID	22	String	Area landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
ALAND	14	Number	Land area
AWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

3.15 Places

Place geography and attributes are available in the following shapefile:

Place State-based Shapefile (Current)

The 2019 TIGER/Line Shapefiles include both incorporated places (legal entities) and census designated places (statistical entities).

Incorporated Places are those reported to the Census Bureau as legally in existence as of January 1, 2019, under the laws of their respective states. An incorporated place provides governmental functions for a concentration of people, as opposed to a minor civil division (MCD), which generally provides services or administers an area without regard, necessarily, to population. Places may extend across county and county subdivision boundaries, but never across state boundaries. An incorporated place usually is a city, town, village, or borough, but can have other legal descriptions. For census purposes, incorporated places exclude:

- The boroughs in Alaska (treated as equivalents of counties)
- Towns in the New England states, New York, and Wisconsin (treated as MCDs)
- The boroughs in New York (treated as MCDs)

Census Designated Places (CDPs) are the statistical counterparts of incorporated places. CDPs are settled concentrations of population that are identifiable by name but not legally incorporated under the laws of the state in which they are located. The Census Bureau defines CDP boundaries in cooperation with local partners as part of the Participant Statistical Areas Program, or in cooperation with tribal

officials as part of the Tribal Statistical Areas Program. CDP boundaries usually coincide with visible features or the boundary of an adjacent incorporated place or another legal entity boundary. CDPs have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change from one decennial census to the next with changes in the settlement pattern; a CDP with the same name as in an earlier census does not necessarily have the same boundary. There are no population size requirements for CDPs. In the nine states of the Northeast (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont) as well as Michigan, Minnesota, and Wisconsin, a CDP may represent a densely settled concentration of population within a town or township; in other instances, a CDP represents an entire town or township.

Hawaii is the only state that has no incorporated places recognized by the Census Bureau. All places shown in data products for Hawaii are CDPs. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County. In Puerto Rico, which also does not have incorporated places, the Census Bureau recognizes only CDPs. The CDPs in Puerto Rico are called comunidades or zonas urbanas. Guam and the Commonwealth of the Northern Mariana Islands also have only CDP's.

Place Codes—the FIPS place code uniquely identifies a place within a state. If place names are duplicated within a state and represent distinctly different areas, a separate code is assigned to each place name alphabetically by the primary county in which each place is located, or, if both places are in the same county, alphabetically by their legal descriptions (for example, "city" before "village"). All places also have an 8-character National Standard (GNIS) code.

Dependent and Independent Places—Depending on the state, incorporated places are either dependent within, or independent of, county subdivisions. Some states contain a mixture of dependent and independent incorporated places. Dependent places are part of the county subdivision; the county subdivision code of the place is the same as that of the underlying county subdivision(s), but is different from the FIPS place code. Independent places are not part of any minor civil division (MCD) and serve as primary county subdivisions. The independent place FIPS code usually is the same as that used for the MCD for the place. The only exception is if the place is independent of the MCDs in a state in which the FIPS MCD codes are in the 90000 range. Then, the FIPS MCD and FIPS place codes will differ. CDPs are always dependent within county subdivisions and all places are dependent within statistical county subdivisions.

Independent Cities- Baltimore city, MD; St. Louis city, MO; Carson city, NV; and all 38 cities in Virginia are not part of any surrounding county. The Census Bureau treats these cities as equivalent to both counties and MCDs (in MCD states). The FIPS code for St. Louis city is the same as the FIPS county subdivision code. All the others have differing FIPS place and county subdivision codes. At the county level, independent cities have a 3-character county code of 500 or higher.

Geographic Corridors and Offset Geographic Boundaries—A geographic corridor (formerly called corporate corridor) is a narrow, linear part of an incorporated place (or in a very few instances, another type of legal entity). The geographic corridor includes the street and/or right-of-way or a portion of the street and/or right-of-way within the incorporated place. It excludes from the incorporated place those structures such as houses, apartments, or businesses that front along the street or road.

A geographic limit offset boundary (formerly called corporate limit offset boundary) exists where the incorporated place lies on only one side of the street and may include all or part of the street and/or the right-of-way. It does not include the houses or land that adjoins the side of the street with the geographic limit offset boundary. It is possible to have two or more geographic limit offset boundaries in the same

street or right-of-way. Geographic limit offset boundaries use the same map symbology as non-offset boundaries. Figures 3 and 4 depict geographic corridors and geographic offset limits.

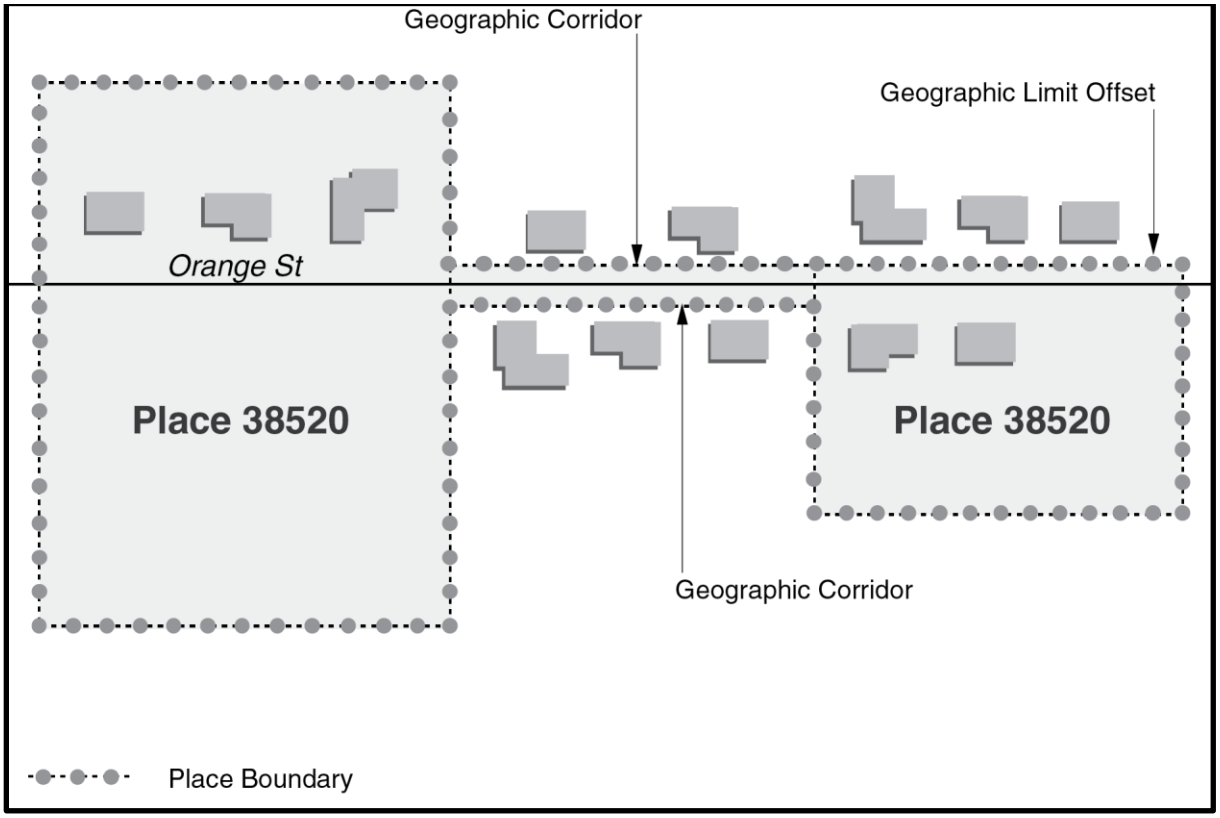

Figure 3: Geographic Corridors – Overview

This diagram, using symbology typical of a census map, shows a geographic corridor linking the two larger areas of Place 38520. Shading highlights the actual area within the corporate limits. Part of the geographic limit along Orange St. is an offset boundary. A geographic limit offset covers only one side of the street or right-of-way, not the entire street or right-of-way, as is the case with a geographic corridor.

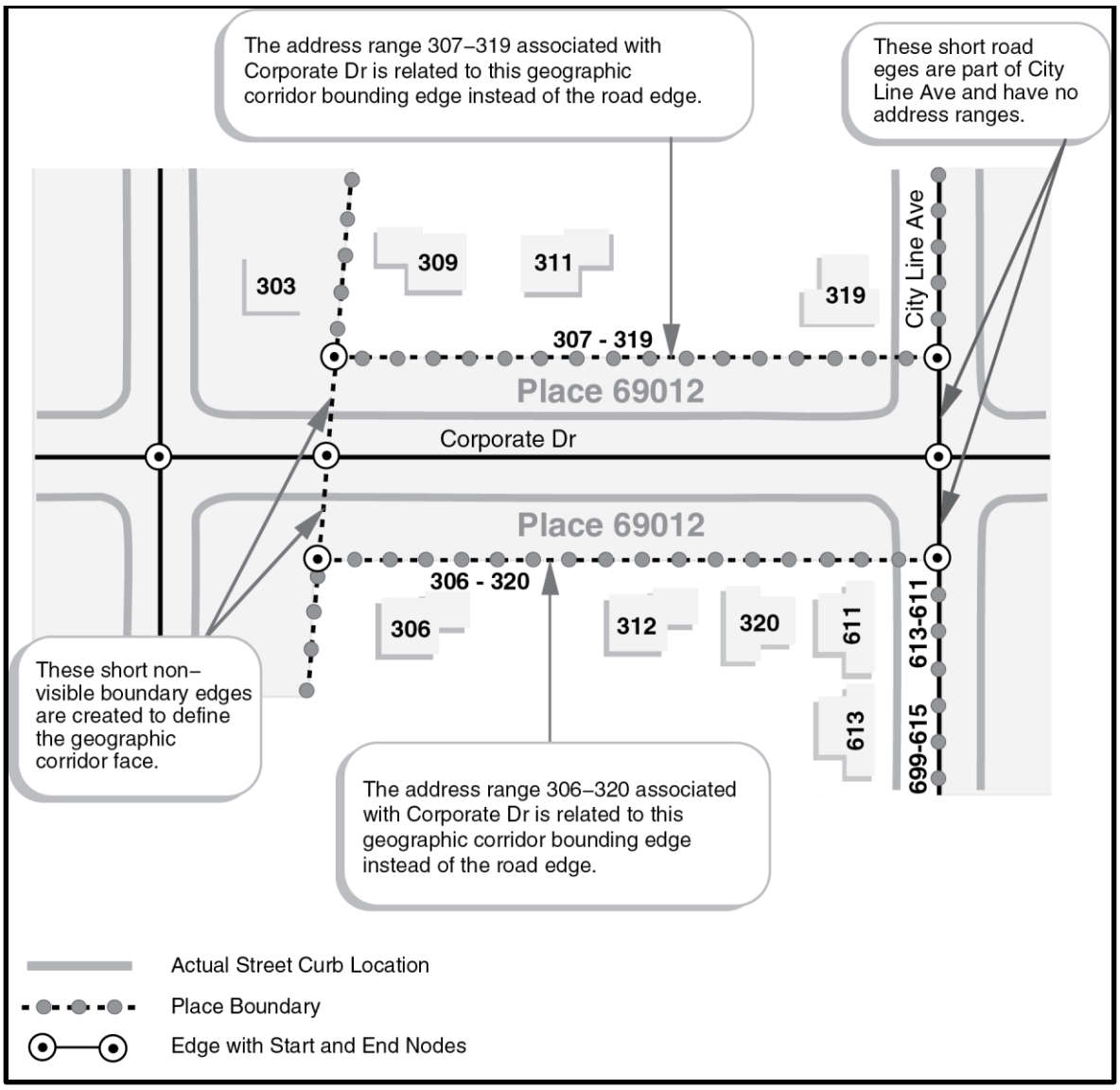

Figure 4: Geographic Corridors Address Ranges

This diagram shows the address ranges associated with a geographic corridor that runs along Corporate Dr. In order to correctly geocode structures outside the geographic corridor in the correct block and place, the address ranges associated with Corporate Dr. are located on and related to the geographic corridor bounding edge instead of the road edge. For example, 311 Corporate Dr. is located outside the geographic limits. Using address ranges on the road edge for Corporate Dr. will incorrectly geocode the structure to Place 69012. Assigning the address ranges to the geographic corridor edge alongside Corporate Dr. will correctly geocode the structure to the block outside of Place 69012. Note that the geographic corridor edge splits City Line Ave. road edge at one end of the corridor. In this case, the road edge outside of the geographic corridor is assigned the address range and the road edge for City Line Ave. inside the corridor does not have address ranges.

The All Lines Shapefile and Address Ranges Relationship File permanent edge identifier (TLID) relate geographic corridor address ranges to the corridor bounding edge adjacent to the road edge. The Address Range-Feature Name Relationship File relates street names to address ranges on geographic

corridor bounding edges. By assigning the address range to the geographic corridor edge rather than the road edge, structures will geocode correctly outside of the geographic corridor.

Consolidated City (Balance) Portions refer to the areas of a consolidated city not included in another separately incorporated place. For example, Butte-Silver Bow, MT, is a consolidated city (former Butte city and Silver Bow County) that includes the separately incorporated municipality of Walkerville city. The area of the consolidated city that is not in Walkerville city is assigned to Butte-Silver Bow (balance). The name always includes the "(balance)" identifier. Balance portions of consolidated cities are included in the place shapefiles.

3.15.1 Place State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_place.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
PLACEFP	5	String	Current place FIPS code
PLACENS	8	String	Current place GNIS code
GEOID	7	String	Place identifier; a concatenation of the current state FIPS code and place FIPS code
NAME	100	String	Current place name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for place
LSAD	2	String	Current legal/statistical area description code for place
CLASSFP	2	String	Current FIPS class code
PCICBSA	1	String	Current metropolitan or micropolitan statistical area principal city indicator
PCINECTA	1	String	Current New England city and town area principal city indicator
MTFCC	5	String	G4110 (incorporated place) and G4210 (census designated place)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.16 Public Use Microdata Areas (PUMAs)

Public use microdata area geography and attributes are available in the following shapefile:

Public Use Microdata Area (PUMA) State-based Shapefile (2010 Census)

Public use microdata areas (PUMAs) are decennial census areas that permit the tabulation and dissemination of Public Use Microdata Sample (PUMS) data, American Community Survey (ACS) data, and ACS period estimates.

For the 2010 Census, the State Data Centers (SDCs) in each state, the District of Columbia, and the Commonwealth of Puerto Rico had the opportunity to delineate PUMAs within their state or statistically equivalent entity. All PUMAs must nest within states and have a minimum population threshold of 100,000 persons. 2010 PUMAs consist of census tracts and cover the entirety of the United States, Puerto Rico, Guam, and the U.S. Virgin Islands. Because they do not meet the minimum population requirement, the Commonwealth of the Northern Mariana Islands and American Samoa do not contain any 2010 PUMAs.

For detailed information about PUMAs, please visit the Public Use Microdata Areas (PUMAs) website at: https://www.census.gov/programs-surveys/geography/guidance/geo-areas/pumas.html .

3.16.1 Public Use Microdata Area (PUMA) State-based Shapefile Record Layout (2010 Census)

File Name: tl_2019_<stateFIPS>_puma10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
PUMACE10	5	String	2010 Census Public Use Microdata Area code
GEOID10	7	String	2010 Census nation-based Public Use Microdata Area code; a concatenation of 2010 Census state FIPS code and Public Use Microdata Area code
NAMELSAD10	100	String	2010 Census translated legal/statistical area description code and Public Use Microdata Area name
MTFCC10	5	String	MAF/TIGER feature class code
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

3.17 School Districts (Elementary, Secondary, and Unified)

School district geography and attributes are available in the following shapefiles:

Elementary School District State-based Shapefile (Current)
Secondary School District State-based Shapefile (Current)
Unified School District State-based Shapefile (Current)

School Districts are single-purpose administrative units within which local officials provide public educational services for the area's residents. The Census Bureau obtains school district boundaries, names, local education agency codes, grade ranges, and school district levels annually from state education officials. The Census Bureau collects this information for the primary purpose of providing the U.S. Department of Education with annual estimates of the number of children in poverty within each school district, county, and state. This information serves as the basis for the Department of Education to determine the annual allocation of Title I funding to states and school districts.

The 2019 TIGER/Line Shapefiles include separate shapefiles for elementary, secondary, and unified school districts. The 2019 shapefiles contain information from the 2019 school year, i.e. districts in operation as of January 1, 2019.

Elementary school districts provide education to the lower grade/age levels and secondary school districts provide education to the upper grade/age levels. Unified school districts provide education to children of all school ages. In general, where there is a unified school district, no elementary or secondary school district exists (see exceptions described below). Where there is an elementary school district, the secondary school district may or may not exist (see explanation below). In addition to regular functioning school districts, the TIGER/Line Shapefiles contain pseudo-school districts as described below.

The Census Bureau categorizes school districts based on the grade ranges for which the school district is financially responsible. These may or may not be the same as the grade ranges that a school district operates. (The grade range that reflects financial responsibility is important for the allocation of Title I funds.) A typical example would be a school district that operates schools for children in grades Kindergarten (KG)-8 and pays a neighboring school district to educate children in grades 9–12. The first school district is operationally responsible for grades KG-8, but financially responsible for grades KG-12. Therefore, the Census Bureau would define the grade range for that school district as KG-12. If an elementary school district is financially responsible for grades KG-12 or Pre-Kindergarten (PK)–12, there will be no secondary school district represented for that area. In cases, where an elementary school district is financially responsible for only lower grades, there is generally a secondary school district that is financially responsible for providing educational services for the upper grades.

The following are exceptions to the above information:

The Census Bureau depicts the State of Hawaii as one unified school district and the five counties that represent the five boroughs of New York City as one unified school district.

Pseudo-elementary school districts

In the school district shapefiles, Illinois contains pseudo-elementary school districts that represent regular unified school districts in an area where the unified school districts share financial responsibility service with secondary school districts. The Census Bureau created pseudo-elementary school districts linked to the unified school district in order to allocate the elementary school aged children to the unified school district. The Census Bureau could not assign an official unified school district code, but had to create a

pseudo-school district code to represent the service area where the unified school district is financially responsible for less than the entire KG-12 grade range. In this area, there was no regular functioning elementary school district serving the area and the secondary school district in this area was not paying tuition to the unified school district (that is, the secondary school districts' financial responsibilities did not extend to kindergarten).

Pseudo-secondary school districts

In the school district shapefiles, California, Georgia, Illinois, Kentucky, Massachusetts, Minnesota, Oklahoma, South Carolina, Tennessee, and Texas contain pseudo-secondary school districts that represent regular unified school districts in areas where the unified school districts share financial responsibility service with elementary school districts. Here the Census Bureau created pseudo-secondary school districts linked to real unified school districts in order to allocate the high school aged children to the unified school districts. The Census Bureau could not assign the official unified school district codes, but had to create pseudo-school district codes to represent a service area where the unified school district is financially responsible for less than the entire KG-12 grade range. In these areas, there were no regular functioning secondary school districts serving the area, and the elementary school districts in these areas were not paying tuition to the unified school districts (that is, the elementary school districts' financial responsibilities did not extend to grade 12).

Pseudo-unified school districts

In the school district shapefiles, New Jersey contains a pseudo-unified school district that represents a regular unified school district, a regular secondary school district, and a regular elementary school district in an area where the unified, secondary, and elementary school districts share financial responsibility service. The Census Bureau created a pseudo-unified school district and linked it to the regular unified, secondary, and elementary school districts in order to allocate the elementary and secondary school aged children to the unified, secondary and elementary school districts. The Census Bureau could not assign an official unified, secondary, or elementary school district code, but had to create a pseudo-school district code to represent the service area where the unified, secondary, and elementary school districts share financially responsibility for the entire KG-12 grade range.

A list of pseudo-elementary, pseudo-secondary, and pseudo-unified school districts and their codes appears in Appendix A. Pseudo school districts are identified in the elementary, secondary, and unified school district tables with an 'A' in the SDTYP field.

School District Codes—the 2019 TIGER/Line Shapefiles contain 5-character school district codes. The value 99997 is the school district code assigned to water or land where the state does not define an official school district. The school district codes are the local education agency codes used by the U.S. Department of Education and are unique within a state.

School District Names— the names of school districts include their description and no other field (NAMELSAD) is required.

3.17.1 Elementary School District State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_elsd.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
ELSDLEA	5	String	Current elementary school district local education agency code
GEOID	7	String	School district identifier; a concatenation of the current state FIPS code and elementary school district local education agency code
NAME	100	String	Current elementary school district name
LSAD	2	String	Current legal/statistical area description code for elementary school district
LOGRADE	2	String	Current lowest grade covered by school district
HIGRADE	2	String	Current highest grade covered by school district
MTFCC	5	String	MAF/TIGER feature class code (G5400)
SDTYP	1	String	Current school district type
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.17.2 Secondary School District State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_scsd.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
SCSDLEA	5	String	Current secondary school district local education agency code

Field	Length	Type	Description
GEOID	7	String	School district identifier; a concatenation of the current state FIPS code and secondary school district local education agency code
NAME	100	String	Current secondary school district name
LSAD	2	String	Current legal/statistical area description code for secondary school district
LOGRADE	2	String	Current lowest grade covered by school district
HIGRADE	2	String	Current highest grade covered by school district
MTFCC	5	String	MAF/TIGER feature class code (G5410)
SDTYP	1	String	Current school district type
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.17.3 Unified School District State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_unsd.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
UNSDLEA	5	String	Current unified school district local education agency code
GEOID	7	String	School district identifier; a concatenation of the current state FIPS code and unified school district local education agency code
NAME	100	String	Current unified school district name
LSAD	2	String	Current legal/statistical area description code for unified school district
LOGRADE	2	String	Current lowest grade covered by school district

Field	Length	Type	Description
HIGRADE	2	String	Current highest grade covered by school district
MTFCC	5	String	MAF/TIGER feature class code (G5420)
SDTYP	1	String	Current school district type
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.18 States and State Equivalent Entities

State and equivalent entity geography and attributes are available in the following shapefile:

State and Equivalent Entity National Shapefile (Current)

States and equivalent entities are the primary governmental divisions of the United States. In addition to the fifty states, the Census Bureau treats the District of Columbia, Puerto Rico, and the Island areas (American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands) as statistical equivalents of states for the purpose of data presentation. Census regions and divisions consist of groupings of states and equivalent entities. Region and division codes are included in the state shapefiles and users can merge state records to form those areas.

3.18.1 State and Equivalent Entity National Shapefile Record Layout (Current)

File Name: tl_2019_us_state.shp

Field	Length	Type	Description
REGION	2	String	Current region code
DIVISION	2	String	Current division code
STATEFP	2	String	Current state FIPS code
STATENS	8	String	Current state GNIS code
GEOID	2	String	State identifier; state FIPS code
STUSPS	2	String	Current United States Postal Service state abbreviation
NAME	100	String	Current state name
LSAD	2	String	Current legal/statistical area description code for state

Field	Length	Type	Description
MTFCC	5	String	MAF/TIGER feature class code (G4000)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.19 State Legislative Districts (Upper and Lower)

State legislative district geography and attributes are available in the following shapefiles:

State Legislative District Lower Chamber (SLDL) State-based Shapefile (Current)
State Legislative District Upper Chamber (SLDU) State-based Shapefile (Current)

State legislative districts are the areas in which voters elect a person to represent them in state or equivalent entity legislatures. Most state legislatures consist of upper (senate—SLDU) and lower (house—SLDL) chambers with separate legislative districts. The Census Bureau first reported data for state legislative districts as part of the 2000 Public Law (P.L.) 94-171 Redistricting Data File for the states that chose to submit legislative district boundaries. Starting with the collection of legislative districts for the 2010 Census in 2006, the Census Bureau updates state legislative district boundaries every two years.

State Legislative Districts (2018 Election Year) - All 50 states, plus the District of Columbia and Puerto Rico, participated in Phase 4 of the Census Redistricting Program, as part of P.L. 94-171. They voluntarily provided the Census Bureau with the 2018 election cycle boundaries, codes, and in some cases names for their state legislative districts. States provided updates for their boundaries used in the November 2018 elections for the session that began in January 2019.

The following states or equivalents had changes to their state legislative districts for 2018:

Alabama
Alaska
Colorado
District of Columbia (upper house only)
Minnesota
North Carolina
Utah

Nebraska has a unicameral legislature and the District of Columbia has a single council, both of which the Census Bureau treats as upper-chamber legislative areas for the purpose of data presentation. Therefore, there are no data by the lower house of the state legislative districts for either Nebraska or the District of Columbia.

State Legislative District Codes - A unique 3-character census code, identified by state participants, is assigned to each state legislative district upper (senate) and lower (house) within a state. In Connecticut, Illinois, Louisiana, Maine, Maryland, Massachusetts, Michigan, Ohio, and Puerto Rico, the state participant did not assign the current state legislative districts to cover all of the state or equivalent area. The code "ZZZ" has been assigned to areas with no state legislative districts defined (usually large water bodies). These unassigned areas are treated as a single state legislative district for purposes of data presentation.

Other Notes on State Legislative Districts

- The state of Ohio generated their state legislative plans using custom geography from the state's Ohio Common and Unified Redistricting Database produced by Cleveland State University. These shapefiles approximate those plans using Census Bureau geography.
- The states of Maryland and New York adjusted the 2010 Census P.L. [94-171] redistricting data for their respective states by reallocating state prisoner populations to their last known residence. Information on these adjustments is available by visiting each state's website: MD http://planning.maryland.gov/redistricting/; NY http://www.latfor.state.ny.us/.
- The state of Hawaii adjusted the 2010 Census P.L. [94-171] redistricting data to remove non-resident military personnel and non-resident students. Information on this adjustment is available at http://elections.hawaii.gov/about-us/boards-and-commissions/reapportionment/.
- The state of Kansas adjusted the 2010 Census P.L. [94-171] redistricting data to exclude non-resident students and non-resident military personnel and to include resident students and members of the military at the place of their permanent residence for state legislative redistricting. Information on this adjustment is available at http://www.kslegresearch.org/KLRD-web/Redistricting.html.
- The state of New Hampshire uses floterial districts in their lower-chamber (SLDL) plan. Floterial districts are overlay districts made up of two or more discrete districts. These discrete or component districts are those represented in the New Hampshire SLDL shapefile. A listing of the floterial districts and their component districts is available as a report (pdf) at https://www2.census.gov/programs-surveys/decennial/rdo/mapping-files/2012/2012-state-legislative-bef/nh-2012-floterial-list.pdf

3.19.1 State Legislative District Lower Chambers (SLDL) State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_sldl.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
SLDLST	3	String	Current state legislative district lower chamber code
GEOID	5	String	State legislative district lower chamber identifier; a concatenation of the current state FIPS code and state legislative district lower chamber code
NAMELSAD	100	String	Current name and the translated legal/statistical area description for state legislative district lower chamber

Field	Length	Type	Description
LSAD	2	String	Current legal/statistical area description code for state legislative district lower chamber
LSY	4	String	Legislative session year
MTFCC	5	String	MAF/TIGER feature class code (G5220)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.19.2 State Legislative District Upper Chambers (SLDU) State-based Shapefile Record Layout (Current)

File Name: tl_2019_<stateFIPS>_sldu.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
SLDUST	3	String	Current state legislative district upper chamber code
GEOID	5	String	State legislative district upper chamber identifier; a concatenation of the current state FIPS code and state legislative district upper chamber code
NAMELSAD	100	String	Current name and the translated legal/statistical area description for state legislative district upper chamber
LSAD	2	String	Current legal/statistical area description code for state legislative district upper chamber
LSY	4	String	Legislative session year
MTFCC	5	String	MAF/TIGER feature class code (G5210)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point

Field	Length	Type	Description
INTPTLON	12	String	Current longitude of the internal point

3.20 Subbarrio (Subminor Civil Division)

Subbarrio (Subminor civil division - sub-MCD) geography and attributes for Puerto Rico are available in the following shapefile:

Subbarrio (SubMinor Civil Division) State-based Shapefile (Current)

Subbarrios, located in Puerto Rico, are legally defined subdivisions of minor civil divisions (MCDs) named barrios-pueblo and barrios. Subbarrios do not exist within every MCD in Puerto Rico nor do they necessarily cover the entire area of an MCD where they do exist. The Puerto Rico Planning Board through the Boundary and Annexation Survey provided the boundaries of the subbarrios to the Census Bureau. The subbarrio boundaries are as of January 1, 2019. For more information, please visit: https://www.census.gov/programs-surveys/bas.html.

The 2019 TIGER/Line Shapefiles contain the 5-character FIPS codes for subbarrios as well as 8-character National Standard (GNIS) codes.

3.20.1 Subbarrio (Subminor Civil Division) State-based Shapefile Record Layout (Current)

File Name: tl_2019_72_subbarrio.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
COUSUBFP	5	String	Current county subdivision FIPS code
SUBMCDFP	5	String	Current subminor civil division FIPS code
SUBMCDNS	8	String	Current subminor civil division GNIS code
GEOID	15	String	Subminor civil division identifier; a concatenation of current state FIPS code, county FIPS code, county subdivision FIPS code, and subminor civil division FIPS code
NAME	100	String	Current subbarrio name
NAMELSAD	100	String	Current name and the translated legal/statistical area description for subbarrio
LSAD	2	String	Current legal/statistical area description code for subbarrio
CLASSFP	2	String	Current FIPS class code

Field	Length	Type	Description
MTFCC	5	String	MAF/TIGER feature class code (G4060)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

3.21 Topological Faces (Polygons with All Geocodes)

Topological face information is available in the following shapefile:

Topological Faces (Polygons with All Geocodes) County-based Shapefile (Current)

The Topological Faces shapefile contains the attributes of each topological primitive face. The attributes associated with each face in this shapefile contain both current and 2010 census block information. The Census Bureau created a set of census blocks for the 2010 Census, identified by a 4-character number with the first digit representing the block group. Throughout the decade, changes to census blocks can occur due to changes in boundaries of the incorporated places, legislative districts, and census tracts that form census block boundaries. The Census Bureau may also split a large census block into more than one piece. All resulting blocks keep the original census block number, followed by a unique alpha character suffix (e.g. block 1001A and 1001B). In a few cases, especially with census tract and block group changes, the first digit in the census block number may no longer represent the current block group.

Due to potential updates to the codes, it is important not to mix 2010 Census geographic codes with current geographic codes. A block can only be unique by using the decennial census state, county, tract, and block group (STATEFP10 + COUNTYFP10 + TRACTCE10 + BLKGRPCE10) to get the correct block group corresponding to the BLOCKCE or BLOCKCE10. (Note that BLOCKCE10 and BLOCKCE are always identical.) Replacing any of these decennial codes with current codes can lead to false duplicate and/or noncontiguous blocks, as well as state, county, tract, and/or block group changes.

3.21.1 Topological Faces (Polygons with All Geocodes) County-based Shapefile Record Layout (Current)

File Name: tl_2019_<state-countyFIPS>_faces.shp

Field	Length	Type	Description
TFID	10	Integer	Permanent face ID
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census tract code

Field	Length	Type	Description
BLKGRPCE10	1	String	2010 Census block group number
BLOCKCE10	4	String	2010 Census tabulation block number
SUFFIX1CE	1	String	Current Census block suffix 1
ZCTA5CE10	5	String	2010 Census 5-digit ZCTA code
UACE10	5	String	2010 Census urban area code
PUMACE10	5	String	2010 Census public use microdata area code
STATEFP	2	String	Current state FIPS code
COUNTYFP	3	String	Current county FIPS code
TRACTCE	6	String	Current census tract code
BLKGRPCE	1	String	Current block group number
COUSUBFP	5	String	Current county subdivision FIPS code
SUBMCDFP	5	String	Current subminor civil division FIPS code
ESTATEFP	5	String	Current estate FIPS code
CONCTYFP	5	String	Current consolidated city FIPS code
PLACEFP	5	String	Current place FIPS code
AIANNHFP	5	Number	Current American Indian/Alaska Native/Native Hawaiian area FIPS code
AIANNHCE	4	String	Current American Indian/Alaska Native/Native Hawaiian area census code
COMPTYP	1	String	Current American Indian/Alaska Native/Native Hawaiian area reservation/statistical area or off-reservation trust land Hawaiian home land indicator
TRSUBFP	5	Number	Current American Indian tribal subdivision FIPS code
TRSUBCE	3	String	Current American Indian tribal subdivision code
ANRCFP	5	String	Current Alaska Native Regional Corporation FIPS code
TTRACTCE	6	String	Current tribal census tract code
TBLKGPCE	1	String	Current tribal block group letter

Field	Length	Type	Description
ELSDLEA	5	String	Current elementary school district local education agency code
SCSDLEA	5	String	Current secondary school district local education agency code
UNSDLEA	5	String	Current unified school district local education agency code
CD116FP	2	String	116th congressional district FIPS code
SLDUST	3	String	Current state legislative district upper chamber code
SLDLST	3	String	Current state legislative district lower chamber code
CSAFP	3	String	Current combined statistical area code
CBSAFP	5	String	Current metropolitan statistical area/micropolitan statistical area code
METDIVFP	5	String	Current Metropolitan division code
CNECTAFP	3	String	Current combined New England city and town area code (New England states only)
NECTAFP	5	String	Current New England city and town area code (New England states only)
NCTADVFP	5	String	Current New England city and town area division code (New England states only)
LWFLAG	1	String	Land/water flag
OFFSET	1	String	Geographic corridor/offset flag
ATOTAL	14	Number	Total area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

3.22 Urban Areas

Urban area geography and attributes are available in the following shapefile:

Urban Area National Shapefile (2010 Census)

For the 2010 Census, the Census Bureau classified all territory, population, and housing units located within urbanized areas (UAs) and urban clusters (UCs) as urban. The Census Bureau delineates UA and UC boundaries to represent densely developed territory, encompassing residential, commercial, and

other non-residential urban land uses. In general, this territory consists of areas of high population density and urban land use resulting in a representation of the "urban footprint." Rural areas consist of territory, population, and housing units located outside of UAs and UCs.

For the 2010 Census, the urban and rural classification applied to the 50 states, the District of Columbia and Puerto Rico. Per agreements with the Island Areas, minor modifications to the classification applied to American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands.

Urbanized Areas (UAs)—An urbanized area consists of densely developed territory that contains 50,000 or more people. The Census Bureau delineates UAs to provide a better separation of urban and rural territory, population, and housing surrounding large places. The Census Bureau first introduced the urbanized area concept for the 1950 Census.

Urban Clusters (UCs)—An urban cluster consists of densely developed territory that has at least 2,500 but fewer than 50,000 people. The Census Bureau first introduced the UC concept for Census 2000 to provide a more consistent and accurate measure of urban population, housing, and territory throughout the United States, Puerto Rico, and the Island Areas. The Census Bureau identifies all qualifying urban areas in Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands as urban clusters based on agreements with the local governments. Thus, in the Island Areas, urban clusters may exceed 50,000 people.

Urban Area Titles and Codes—The title of each UA and UC may consist of up to three incorporated place or census designated place (CDP) names and will include the 2-letter U.S. Postal Service abbreviation for each state or statistically equivalent entity into which the UA or UC extends. However, if the UA or UC does not contain an incorporated place or CDP, the urban area title will include the single name of a minor civil division or populated place recognized by the U.S. Geological Survey's Geographic Names Information System (GNIS).

Each UC and UA is assigned a 5-character code, based on a national alphabetical sequence of all urban area names. A separate flag is included in data tabulation files to differentiate between UAs and UCs. In printed reports, this differentiation is included in the name.

Relationship to Other Geographic Entities— The Census Bureau delineates Urban Areas at the block level. Urban Areas may cross the boundaries of all other geographic areas for which the Census Bureau presents data, which means that all areas, other than blocks, may include both urban and rural areas. For more information, visit:
https://www.census.gov/programs-surveys/geography/guidance/geo-areas/urban-rural.html .

3.22.1 Urban Area (UA) National Shapefile Record Layout (2010 Census)

File Name: tl_2019_us_uac10.shp

Field	Length	Type	Description
UACE10	5	String	2010 Census urban area code
GEOID10	5	String	2010 Census urban area identifier; 2010 Census urban area code
NAME10	100	String	2010 Census urban area name

Field	Length	Type	Description
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for urban area
LSAD10	2	String	2010 Census legal/statistical area description code for urban area
MTFCC10	5	String	MAF/TIGER feature class code (G3500)
UATYP10	1	String	2010 Census urban area type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

3.23 ZIP Code Tabulation Areas (5-digit)

ZIP Code tabulation area geography and attributes are available in the following shapefile:

5-Digit ZIP Code Tabulation Area (ZCTA5) National Shapefile (2010 Census)

ZIP Code tabulation areas (ZCTAs) are approximate area representations of U.S. Postal Service (USPS) 5-digit ZIP Code service areas that the Census Bureau creates using census blocks to present statistical data from censuses and surveys. The Census Bureau defines ZCTAs by allocating each block that contains addresses to a single ZIP Code tabulation area, usually to the ZCTA that reflects the most frequently occurring ZIP Code for the addresses within that block. Blocks that do not contain addresses but that are completely surrounded by a single ZIP Code tabulation area (enclaves) are assigned to the surrounding ZCTA; those surrounded by multiple ZCTAs will be added to a single ZCTA based on the longest shared border. The Census Bureau identifies 5-digit ZIP Code tabulation areas using a 5-character numeric code that represents the most frequently occurring USPS ZIP Code within that ZCTA. This code may contain leading zeros.

Data users should not use ZCTAs to identify the official USPS ZIP Code for mail delivery. The USPS makes periodic changes to ZIP Codes to support more efficient mail delivery. ZIP Codes that cover primarily nonresidential or post office box addresses may not have a corresponding ZCTA because the delineation process uses primarily residential addresses, resulting in a bias towards ZIP Codes used for city-style mail delivery.

ZIP Code Tabulation Area Codes—The Census Bureau identifies 5-digit ZCTAs using a 5-digit code. For more information, visit:
https://www.census.gov/programs-surveys/geography/guidance/geo-areas/zctas.html.

3.23.1 5-Digit ZIP Code Tabulation Area (ZCTA) National Shapefile Record Layout (2010 Census)

File Name: tl_2019_us_zcta510.shp

Field	Length	Type	Description
ZCTA5CE10	5	String	2010 Census 5-digit ZIP Code Tabulation Area code
GEOID10	5	String	2010 Census 5-digit ZIP Code Tabulation Area identifier, 2010 Census 5-digit ZIP Code Tabulation Area code
CLASSFP10	2	String	2010 Census FIPS 55 class code
MTFCC10	5	String	MAF/TIGER feature class code (G6350)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point