

This listing provides data users the components of the common field needed to join the 2010 Census [P.L. 94-171] Summary file data to the GEOID10 field which exists in the 2010 Census [P.L. 94-171] TIGER/Line shapefiles as provided by the Census Bureau for each state. Each level of geography requires a specific concatenation of fields in order to create this common identifier. These fields should be generated as text fields to prevent the loss of preceding zeroes.

Assumptions:

- 1) These GEOIDs are being constructed for use with the 2010 Census [P.L. 94-171] TIGER/Line shapefiles.
- 2) Entities that cross state boundaries will have to construct separate GEOIDs for the portion of their entity which resides within each state.
- 3) The GEOIDs created from the 2010 Census [P.L. 94-171] Summary files are exclusively for joining these files to the 2010 Census geography.

Area Type	PL 94-171 TIGER/Line Shapefile	PL 94-171 Summary Level	Fields in the 2010 Census PL 94-171 Summary Files to Concatenate to match the TIGER/Line Shapefile GEOID10
Alaska Native Regional Corporation [Alaska Only]	tl_2010_02_anrc10.shp	230	STATE + ANRC
American Indian Area/Alaska Native Area/Hawaiian Home Land	tl_2010_<state FIPS>_aiannh10.shp	280	See notes below
American Indian Area/Alaska Native Area (Reservation or Statistical Entity Only)	tl_2010_<state FIPS>_aiannh10.shp	283	STATE + AIANHH + AIHHTLI
American Indian Area (Off-Reservation Trust Land Only)/Hawaiian Home Land	tl_2010_<state FIPS>_aiannh10.shp	286	STATE + AIANHH + AIHHTLI
American Indian Tribal Subdivision	tl_2010_<state FIPS>_aits10.shp	281	STATE + AIANHH + AITSCE
County Subdivision	tl_2010_<state FIPS>_cousub10.shp	060	STATE + COUNTY + COUSUB
Subminor Civil Division [Puerto Rico only]	tl_2010_72_submcd10.shp	067	STATE + COUNTY + COUSUB + SUBMCD
Consolidated City	tl_2010_<state FIPS>_concit10.shp	170	STATE + CONCIT
Place	tl_2010_<state FIPS>_place10.shp	160	STATE + PLACE
Census Tract	tl_2010_<state FIPS>_tract10.shp	140	STATE + COUNTY + TRACT
Block Group	tl_2010_<state FIPS>_bg10.shp, tl_2010_<state-county FIPS>_bg10.shp	150	STATE + COUNTY + TRACT + BLKGRP
Block	tl_2010_<state FIPS>_tabblock10.shp, tl_2010_<state-county FIPS>_tabblock10.shp	750	STATE + COUNTY + TRACT + BLOCK
Congressional District (111th Congress)	tl_2010_<state FIPS>_cd111.shp	500	STATE + CD
State Legislative District (Upper Chamber)	tl_2010_<state FIPS>_sldu10.shp	610	STATE + SLDU
State Legislative District (Lower Chamber)	tl_2010_<state FIPS>_sldl10.shp	620	STATE + SLDL
Voting District	tl_2010_<state-county FIPS>_vtd10.shp	700	STATE + COUNTY + VTD (See notes below)
School District (Elementary)	tl_2010_<state FIPS>_elsd10.shp	950	STATE + SDELM
School District (Secondary)	tl_2010_<state FIPS>_scsd10.shp	960	STATE + SDSEC
School District (Unified)	tl_2010_<state FIPS>_unsd10.shp	970	STATE + SDUNI

Notes:

Use the TIGER/Line Shapefile field AIANNHCE10 to match the PL Data field AIANNH. For AIANNH records that have both Reservation and Off-reservation trust land portions, dissolve the two polygons to create a single polygon. The single polygon sharing the AIANNH code reflects the area for which data are provided in summary level 280.

VTD codes are of a variable length between one and six characters. To accommodate this, the VTD field of the summary file extracts left pads the field with blanks to create a standardized six character field. It is necessary to remove these blanks prior to concatenating the fields to generate a GEOID that will match the GEOID10 field in the TIGER/Line shapefiles. There are several ways to accomplish this, one example being to use the TRIM() function in Access.

Summary File 1 Note:

The summary levels available in Summary File 1 (SF1) may differ from those available in the P.L. 94-171 Summary File. Please refer to Chapter 4 of the 2010 Census Summary File 1 technical documentation when working with that data set.
<http://www.census.gov/prod/cen2010/doc/sf1.pdf>