

# 2010 Census Tract Relationship Files Record Layouts

Tract relationship files are state-based tabular files. Areal relationships between tracts can be determined by using commercially available GIS software with the Census Bureau's TIGER/Line shapefiles.

These tract relationship files identify states and counties by FIPS (Federal Information Processing Series) codes. These files do not include the geographic names referenced by the FIPS codes. Tract relationship files are provided in a comma-delimited ASCII text file format.

The layouts for the Census Tract Relationship Files are provided below. Also available in separate text files are the header information for the Census Tract Relationship Files [<https://www2.census.gov/geo/docs/maps-data/data/rel/trfheader.txt>] , 2000 Substantially Changed Census Tracts Files [<https://www2.census.gov/geo/docs/maps-data/data/rel/sig00header.txt>] , and 2010 Substantially Changed Census Tracts Files [<https://www2.census.gov/geo/docs/maps-data/data/rel/sig10header.txt>] . Tract relationships may be one-to-one, many-to-one, one-to-many, or many-to-many.

## 2010 Census Tract Relationship File Layout

Column Name	Maximum Length	Column Description
STATE00	2	2000 State FIPS Code
COUNTY00	3	2000 County Code code
TRACT00	6	2000 Census Tract Code
GEOID00	11	Concatenation of 2000 state, county and tract for Census 2000 Tract
POP00	14	2010 Population of the 2000 Tract
HU00	14	2010 Housing Unit Count of the 2000 Tract
PART00	1	2000 Tract Part Flag
AREA00	14	Total Area of the 2000 Tract
AREALAND00	14	Total Land Area of the 2000 Tract
STATE10	2	2010 State FIPS Code
COUNTY10	3	2010 County Code
TRACT10	6	2010 Tract Code
GEOID10	11	Concatenation of state, county and tract for 2010 Census Tracts
POP10	14	2010 Population of the 2010 Tract
HU10	14	2010 Housing Unit Count of the 2010 Tract
PART10	1	2010 Tract Part Flag
AREA10	14	Total Area of the 2010 Tract
AREALAND10	14	Total Land Area of the 2010 Tract
AREAPT	14	Area for the record
AREALANDPT	14	Land Area for the record
AREAPCT00PT	5	Calculated Percent of the Total 2000 Tract the Area represents (to 2 decimal points)
AREALANDPCT00PT	5	Calculated Percent of the Total 2000 Tract the Land Area represents (to 2 decimal points)
AREAPCT10PT	5	Calculated Percent of the Total 2010 Tract the Area represents (to 2 decimal points)
AREALANDPCT10PT	5	Calculated Percent of the Total 2010 Tract the Land Area represents (to 2 decimal points)
POP10PT	14	Calculated 2010 Population for the relationship record
POPPCT00	5	Calculated Percentage of the POP00 this record (POP10PT) contains (to 2 decimal points)
POPPCT10	5	Calculated Percentage of the POP10 this record (POP10PT) contains (to 2 decimal points)
HU10PT	14	Calculated 2010 Housing Unit count for the relationship record
HUPCT00	5	Calculated Percentage of the HU00 this record (HU10PT) contains (to 2 decimal points)
HUPCT10	5	Calculated Percentage of the HU10 this record (HU10PT) contains (to 2 decimal points)

## Substantially Changed 2000 Census Tracts File Layout

Column Name	Maximum Length	Column Description
STATE00	2	2000 State FIPS Code
COUNTY00	3	2000 County Code
TRACT00	6	2000 Census Tract Code
GEOID00	11	Concatenation of state, county, and tract for Census 2000 Tracts

## Substantially Changed 2010 Census Tracts File Layout

Column Name	Maximum Length	Column Description
STATE10	2	2010 State FIPS Code
COUNTY10	3	2010 County Code
TRACT10	6	2010 Census Tract Code
GEOID10	11	Concatenation of state, county, and tract for 2010 Census Tracts

*Last Revised: June 26, 2018*