

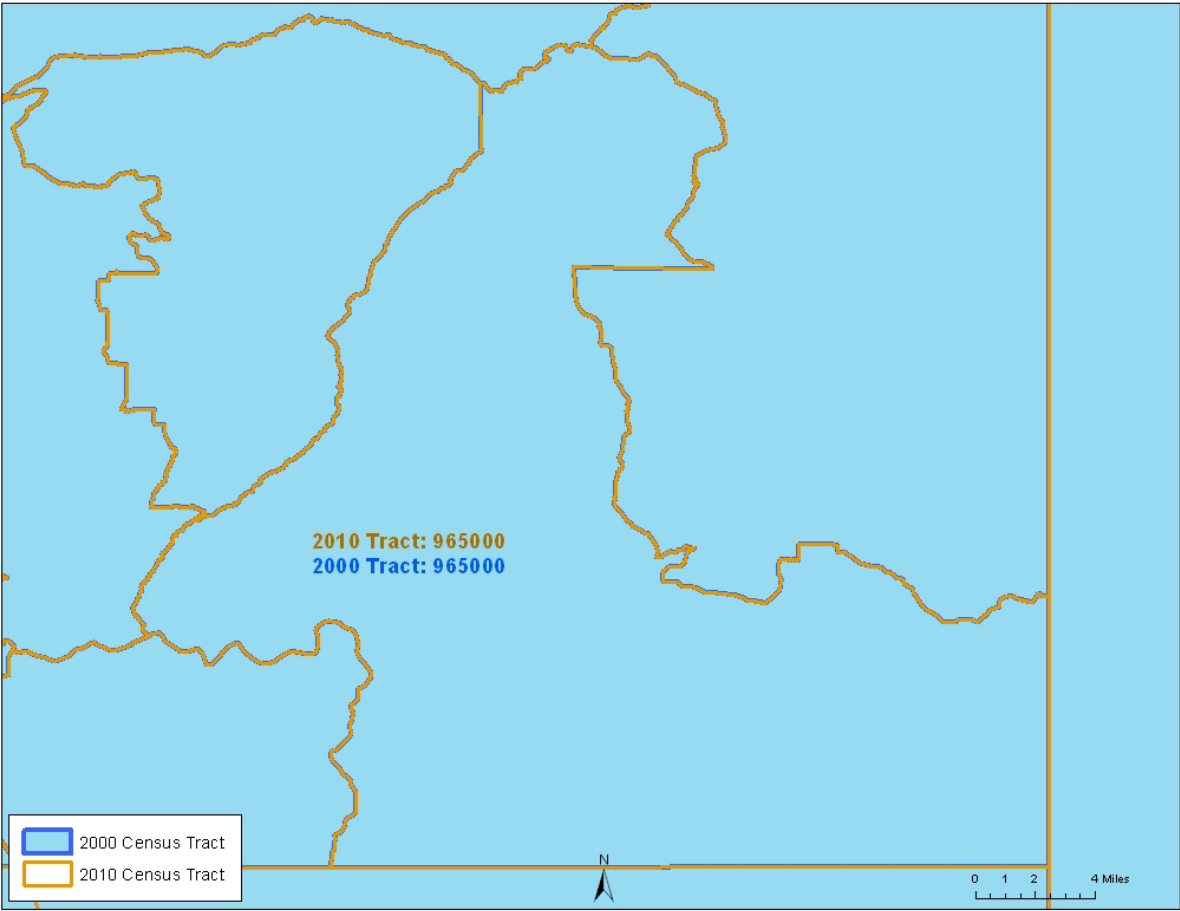
## Explanation of the 2010 Census Tract Relationship File:

The 2010 Census Tract Relationship File is provided as a tool to help data users compare the universe of Census 2000 tracts to the universe of 2010 Census tracts. Each record in the relationship files represents one polygon that is formed when the 2010 Census tracts overlay the Census 2000 tracts. Some of the polygons are very small in area, while others are larger, but each record in the tract relationship file describes the 2000 and the 2010 geography that falls within that polygon. It is important to note that all population figures given in the files are from the 2010 Census population count.

### Explanation of the 2010 Census Tract Relationship File: Example 1: No Change

In this simple example, the Census 2000 tract 965000 and the 2010 Census tract 965000 have the same boundary and share the same area. Therefore, only one polygon is formed when you lay the 2010 Census tracts over the Census 2000 tracts and there is only one record in the tract relationship files for this example. The 2010 population for both the Census 2000 tract and the 2010 Census tract is 5,017 and the total area is 827,553,078 m<sup>2</sup>. Below is the record from the tract relationship file and a map of the area.

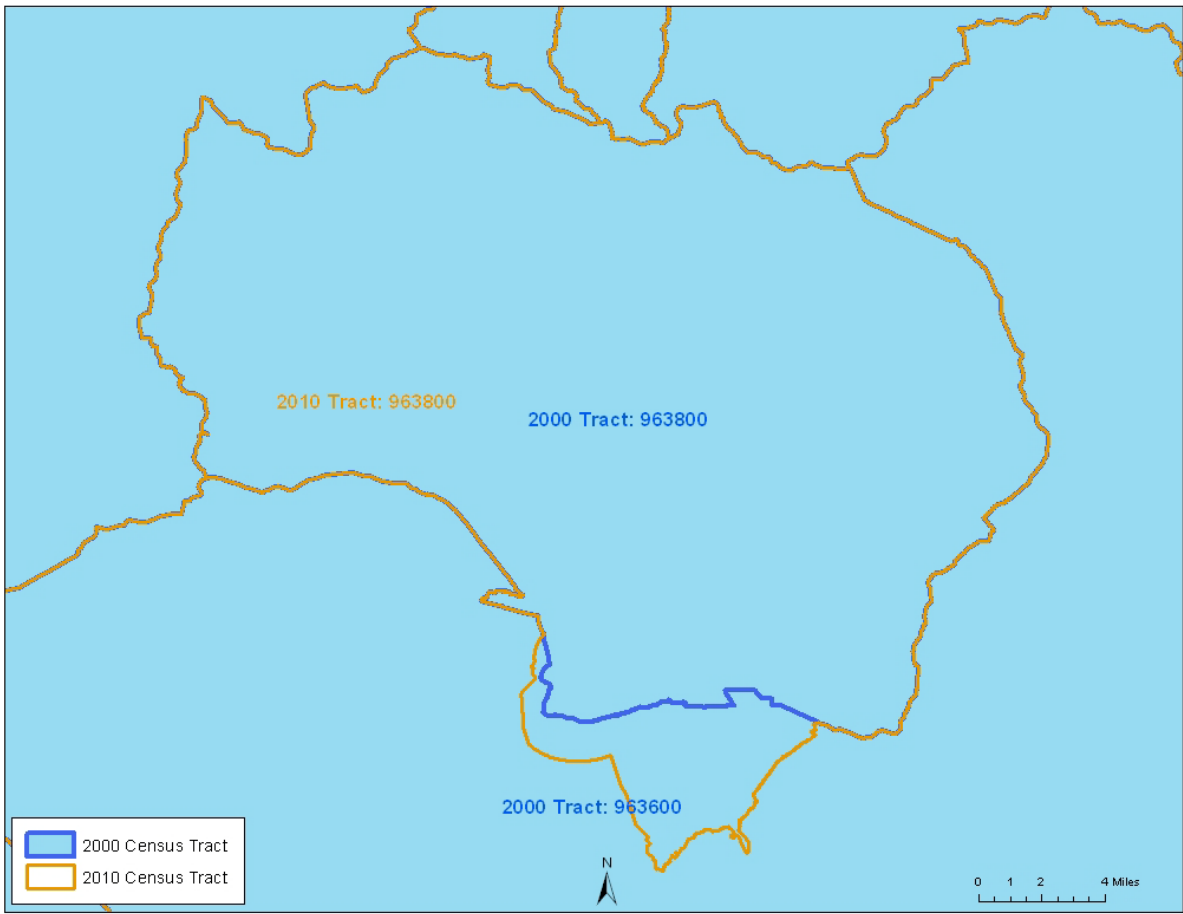
Field	Value
STATE00	08
COUNTY00	029
TRACT00	965000
GEOID00	08029965000
POP00	5017
HU00	2465
PART00	W
AREA00	827553078
AREALAND00	824172988
STATE10	08
COUNTY10	029
TRACT10	965000
GEOID10	08029965000
POP10	5017
HU10	2465
PART10	W
AREA10	827553078
AREALAND10	824172988
AREAPT	827553078
AREALANDPT	824172988
AREAPCT00PT	100.00
AREALANDPCT00PT	100.00
AREAPCT10PT	100.00
AREALANDPCT10PT	100.00
POP10PT	5017
POPPCT00	100.00
POPPCT10	100.00
HU10PT	2465
HUPCT00	100.00
HUPCT10	100.00



## Explanation of the 2010 Census Tract Relationship File: Example 2: Revision

In this example, the Census 2000 census tract 963800 has been revised slightly for 2010 and 2010 Census tract 963800 now extends south into Census 2000 tract 963600. Small revisions each decade are allowed, but should not affect a large portion of the population. It is difficult to compare census tracts from decade to decade when a revision has taken place, so it is necessary that the boundary change does not affect a large portion of the population. In the example below, the 2010 population for the Census 2000 tract 963800 is 4,461 while the 2010 population for the 2010 Census tract 963800 is 4,501. In addition, the total area for the Census 2000 tract 963800 is 793,173,214 m<sup>2</sup> while the total area for the 2010 Census tract 963800 is 845,726,965 m<sup>2</sup>. The Census 2000 tract 963800 is wholly within the 2010 Census tract 963800, so there is a W in the PART00 field. However, the 2010 Census tract 963800 is not wholly within the Census 2000 tract 963800, so there is a P in the PART10 field for that record (Record 1). Since the new 2010 Census tract 963800 has been revised, it now crosses into another Census 2000 tract: 963600, therefore there is an additional polygon and record (Record 2). The 2010 population count for this polygon is 40 and only represents 0.89% of the population living within 2010 Census tract 963800. So, the revision did not affect a large portion of the population. Below are the records from the tract relationship file and a map of the area.

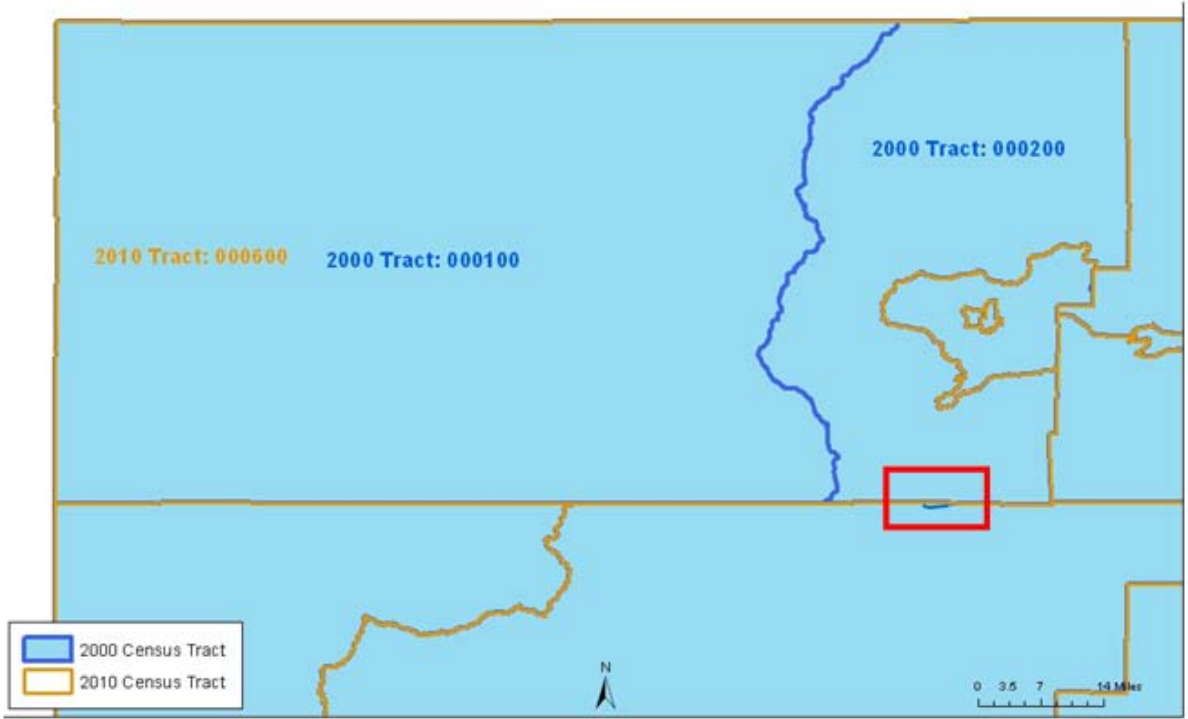
Field	Value for Record 1	Value for Record 2
STATE00	08	08
COUNTY00	051	051
TRACT00	963800	963600
GEOID00	08051963800	08051963600
POP00	4461	3834
HU00	4126	3154
PART00	W	P
AREA00	793173214	3330782114
AREALAND00	792398485	3320042122
STATE10	08	08
COUNTY10	051	051
TRACT10	963800	963800
GEOID10	08051963800	08051963800
POP10	4501	4501
HU10	4150	4150
PART10	P	P
AREA10	845726965	845726965
AREALAND10	844937722	844937722
AREAPT	793173214	52553751
AREALANDPT	792398485	52539237
AREAPCT00PT	100.00	1.58
AREALANDPCT00PT	100.00	1.58
AREAPCT10PT	93.79	6.21
AREALANDPCT10PT	93.78	6.22
POP10PT	4461	40
POPPCT00	100.00	1.04
POPPCT10	99.11	0.89
HU10PT	4126	24
HUPCT00	100.00	0.76
HUPCT10	99.42	0.58



## Explanation of the 2010 Census Tract Relationship File: Example 3: Merge

In the example below, Census 2000 tracts 000100 and 000200 merged together to form 2010 Census tract 000600. The 2010 population for Census 2000 tract 000100 is 857 and the population for tract 000200 is 751. The 2010 population for the 2010 Census tract 000600 is 1,608. In addition, the total area for 2000 Census tract 000100 is 8,956,127,151 m<sup>2</sup> and the total area for 2000 Census tract 000200 is 2,928,158,060 m<sup>2</sup>. The total area for the 2010 Census tract 000600 is 11,884,327,258 m<sup>2</sup>. Record 1 shows that Census 2000 tract 000100 falls wholly within 2010 Census tract 000600, since there is a W in the PART00 field. Record 2 shows that Census 2000 tract 000200 does not fall wholly within 2010 Census tract 000600, since there is a P in the PART00 field for this record. This is because a small sliver of Census 2000 tract 000200 crosses into another 2010 Census tract in a different county (shown in the red box on the map). Record 3 in the example below refers to the small sliver that was formed due to a small boundary correction that has occurred over the past decade. Record 3 shows that there is no population living within the small sliver since the POP10PT is 0. Therefore, if you wanted to compare the population change between 2000 and 2010, you would compare the 2000 population of Census 2000 tracts 000100 and 000200 to the 2010 population of 2010 Census tract 000600. Below are the records from the tract relationship file and a map of the area.

Field	Value for Record 1	Value for Record 2	Value for Record 3
STATE00	08	08	08
COUNTY00	081	081	081
TRACT00	000100	000200	000200
GEOID00	08081000100	08081000200	08081000200
POP00	857	751	751
HU00	532	483	483
PART00	W	P	P
AREA00	8956127151	2928158060	2928158060
AREALAND00	8942176703	2924140283	2924140283
STATE10	08	08	08
COUNTY10	081	081	103
TRACT10	000600	000600	951100
GEOID10	08081000600	08081000600	08103951100
POP10	1608	1608	3858
HU10	1015	1015	2097
PART10	P	P	P
AREA10	11884327258	11884327258	5161012537
AREALAND10	11866359033	11866359033	5156178677
AREAPT	8956127151	2928144943	13117
AREALANDPT	8942176703	2924127166	13117
AREAPCT00PT	100.00	100.00	0.00
AREALANDPCT00PT	100.00	100.00	0.00
AREAPCT10PT	75.36	24.64	0.00
AREALANDPCT10PT	75.36	24.64	0.00
POP10PT	857	751	0
POPPCT00	100.00	100.00	0.00
POPPCT10	53.30	46.70	0.00
HU10PT	532	483	0
HUPCT00	100.00	100.00	0.00
HUPCT10	52.41	47.59	0.00



## Explanation of the 2010 Census Tract Relationship File: Example 4: Split

In the example below, Census 2000 tract 001903 was divided into two 2010 Census tracts: 001907 and 001908. The 2010 population for Census 2000 tract 001903 is 5,775. The 2010 population for 2010 Census tract 001907 is 2,775 and for 2010 Census tract 001908 is 3,000. In addition, the total area of Census 2000 tract 001903 is 127,067,755 m<sup>2</sup>. The total area of 2010 Census tract 001907 is 50,049,249 m<sup>2</sup> and for 2010 Census tract 001908 is 77,018,506 m<sup>2</sup>. Both 2010 Census tracts 001907 and 001908 fall wholly within Census 2000 tract 001903, so there is a W in both PART10 fields. However, since Census 2000 tract 001903 is divided into the two 2010 Census tracts, there is a P in the PART00 field for both records. If you wanted to compare the population change between 2000 and 2010, you would need the 2000 population for Census 2000 tract 001903 and compare it to the 2010 population for both 2010 Census tracts 001907 and 001908. Below are the records from the tract relationship file and a map of the area.

Field	Value for Record 1	Value for Record 2
STATE00	08	08
COUNTY00	123	123
TRACT00	001903	001903
GEOID00	08123001903	08123001903
POP00	5775	5775
HU00	2136	2136
PART00	P	P
AREA00	127067755	127067755
AREALAND00	126186663	126186663
STATE10	08	08
COUNTY10	123	123
TRACT10	001907	001908
GEOID10	08123001907	08123001908
POP10	2775	3000
HU10	1047	1089
PART10	W	W
AREA10	50049249	77018506
AREALAND10	49749348	76437315
AREAPT	50049249	77018506
AREALANDPT	49749348	76437315
AREAPCT00PT	39.39	60.61
AREALANDPCT00PT	39.43	60.57
AREAPCT10PT	100.00	100.00
AREALANDPCT10PT	100.00	100.00
POP10PT	2775	3000
POPCT00	48.05	51.95
POPCT10	100.00	100.00
HU10PT	1047	1089
HUPCT00	49.02	50.98
HUPCT10	100.00	100.00

