Crosswalk files 1990-2000 located at:

<https://www.census.gov/geographies/reference-files/time-series/geo/relationship-files.2000.html>

To covert from ASCII to data.frames:

d1 <- read.csv( "https://www2.census.gov/geo/relfiles/tract/az/az04pop.txt",

header=F )

ascii.text <- d1$V1

Population-based Census Tract Relationship File Layout (xxNNpop.txt)

Field Field Length Field Description

1-2 2 1990 state FIPS code

3-5 3 1990 county FIPS code

6-9 4 1990 census tract base

10-11 2 1990 census tract suffix

12 1 1990 census tract part flag

13-21 9 Census 2000 population for 1990 census tract

22-25 4 Percentage of 1990 census tract population\*

26-27 2 2000 state FIPS code

28-30 3 2000 county FIPS code

31-34 4 2000 census tract base

35-36 2 2000 census tract suffix

37 1 2000 census tract part flag

38-46 9 Census 2000 Population of 2000 census tract

47-50 4 Percentage of 2000 census tract population\*

51-59 9 2000 population of the area covered by the record

60-73 14 Land area of the record (1000 sq.meters)

74-75 2 2000 state name abbreviation

76-135 60 2000 county name

\*These figures are shown to one decimal place (000.1); the decimal place is implied.

state.fips <- substr( ascii.text, 1, 2 )

county.fips <- substr( ascii.text, 3, 5 )

tract.fips <- substr( ascii.text, 6, 11 )

pct.1990 <- as.numeric( substr( ascii.text, 22, 25 ) ) / 10

geoid <- paste0( state.fips, county.fips, tract.fips )

d2 <- data.frame( geoid, state.fips, county.fips, tract.fips, pct.1990 )

head( d2 )