1. Can proj4string be defined directly by readShapePoly ? Is spTransform needed ?

The Coodinate Reference System of shapefiles from TIGER is different from that of TAZ shapefile download form server. I am not sure whether spTransform is needed. Can proj4string be defined directly by readShapePoly ?

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ClackamasPoly <- readShapePoly("gisserver/clackamas/clackamas.shp",

proj4string=CRS("+proj=lcc +lat\_1=46 +lat\_2=44.33333333333334

+lat\_0=43.66666666666666 +lon\_0=-120.5 +x\_0=2500000.0001424 +y\_0=0 +ellps=GRS80 +to\_meter=0.3048 +no\_defs"))

How can I get proj4string=CRS shown above?

2. I just use same proj4string to combine four counties’ shapefiles.

All scripts are in Calc\_emp.R .

3. gCentroid and gContains

The LEHD data is block level, which need to aggregate into TAZ level with TIGER data. After combing four counties’ shapefiles, I use gCentroid to get centroid of blocks. Then, I want to use gContains to aggregate LEHD data into TAZ level, I am not sure why the iteration does not work?

All scripts are in Calc\_emp.R .

4. I assume that block has TAZ index (use results of PostgreSQl), then I calculate employ density and sizeterms density in R.

All scripts are in Calc\_emp2.R .

Spatial reference