

INTRO TO GIS_c

GEOREFERENCED DEMOGRAPHIC DATA

AGENDA

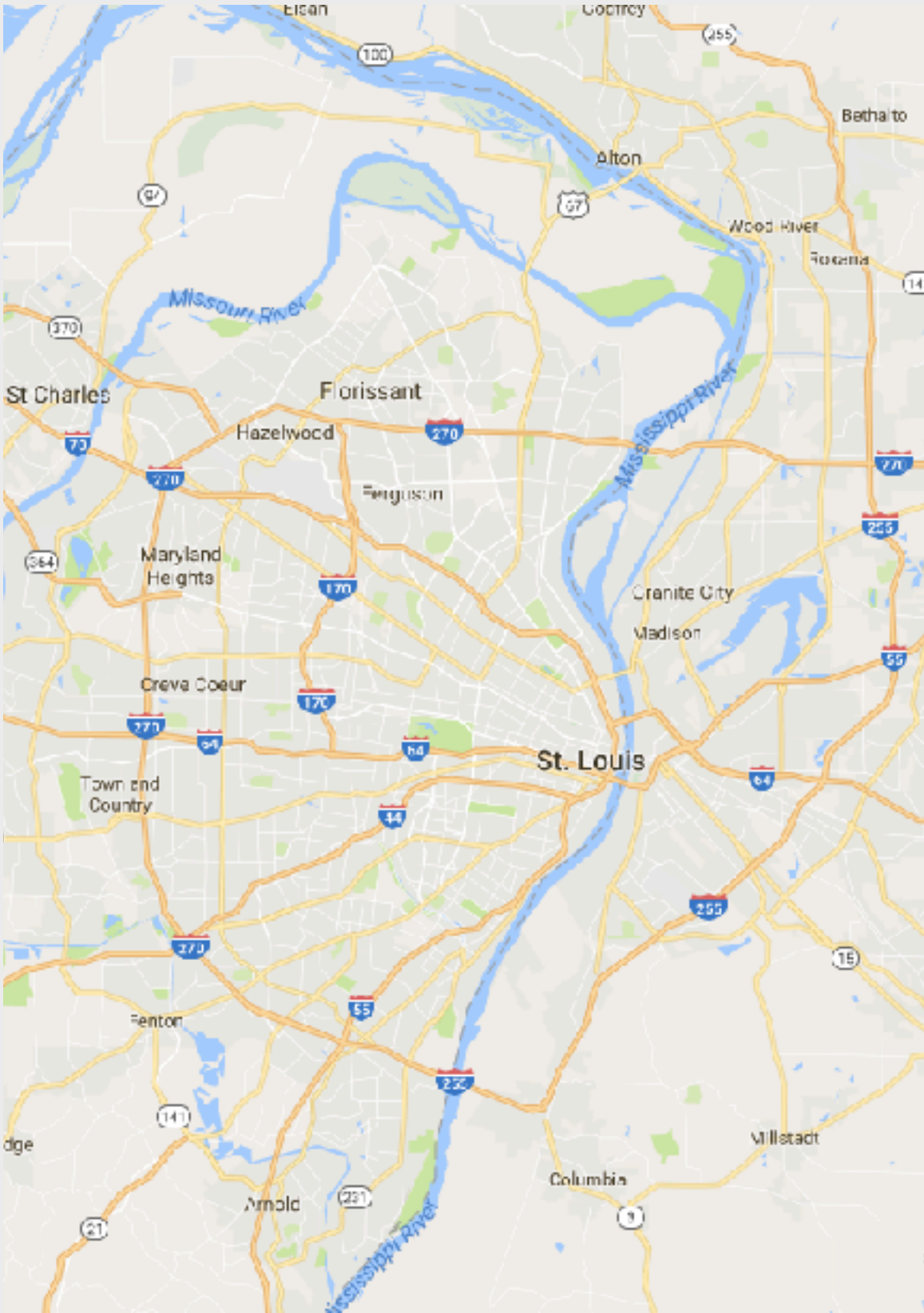
1. Flashback: Census Geography
2. Census Data Products
3. American Fact Finder
4. Cleaning Census Data

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FLASHBACK:

CENSUS GEOGRAPHY

1. FLASHBACK: CENSUS GEOGRAPHY



REPRESENTING NAMES

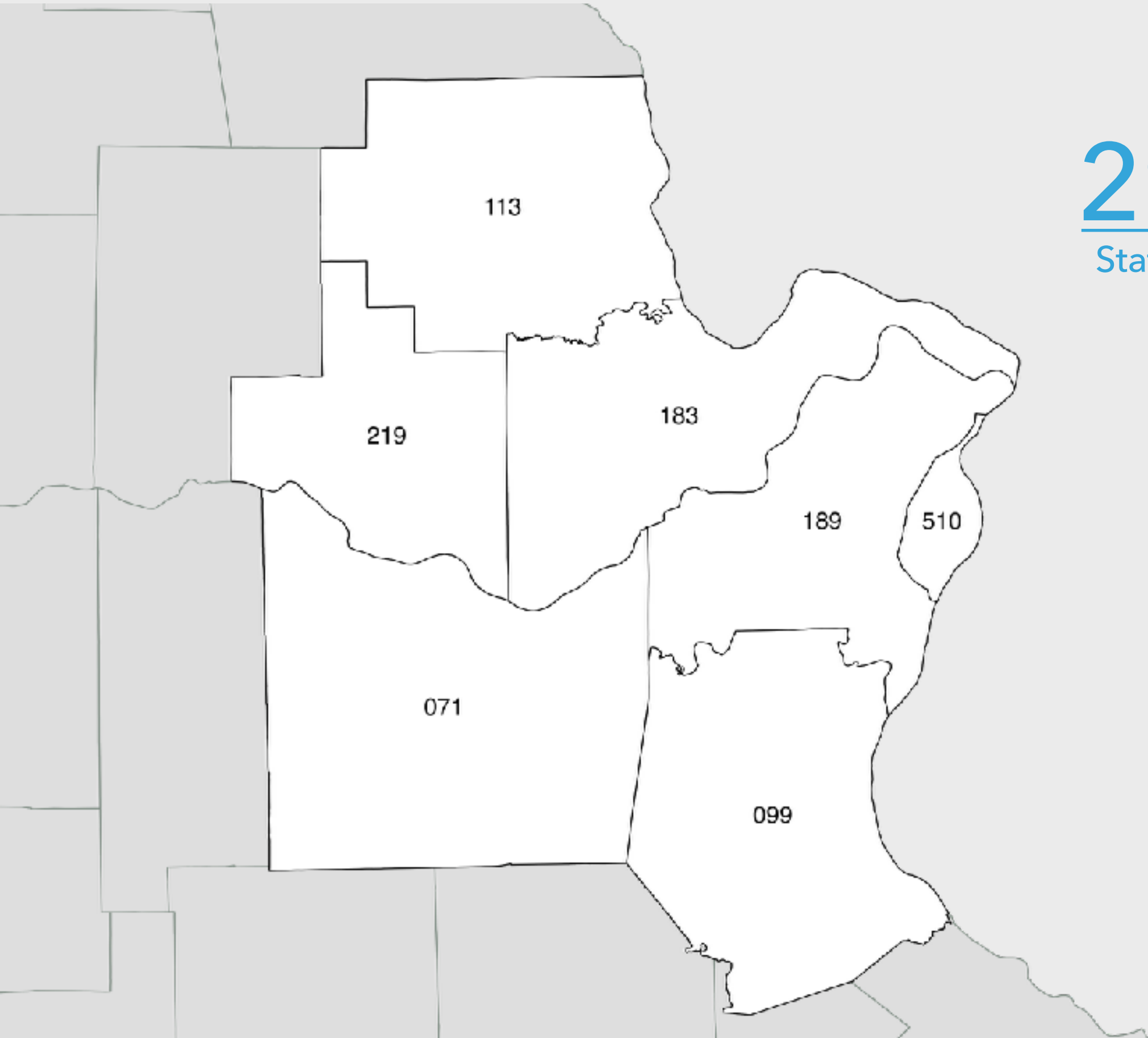
- ▶ We want to use standardized approaches to numeritizing place names whenever possible
- ▶ FIPS aka ANSI Codes

Divison	Label	Label
STATE	Postal Code	Missouri
STATEFP	FIPS Code	29
COUNTYFP	County FIPS	510
COUNTY	County Name	St. Louis City

METRO COUNTY PLACE NAMES

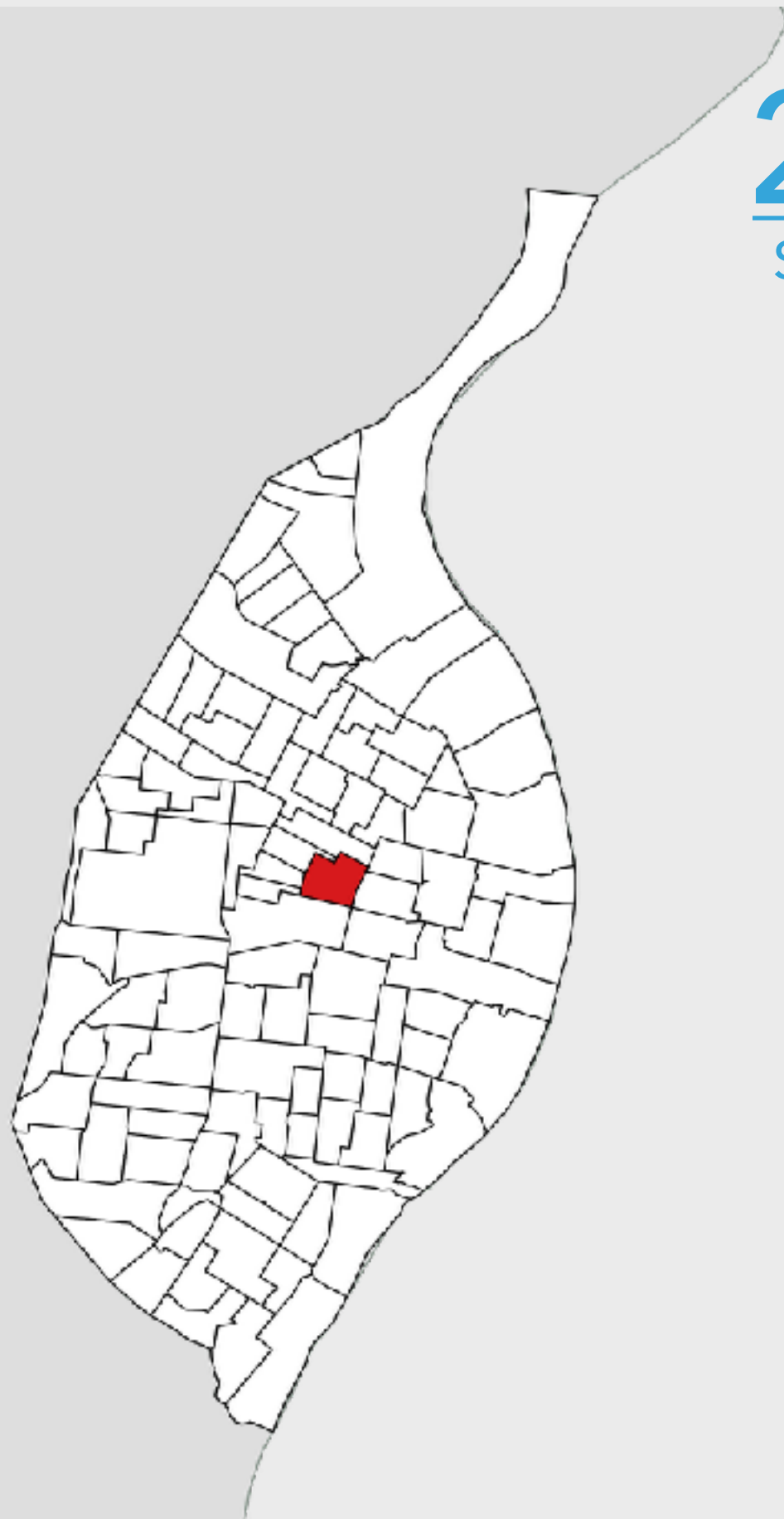


METRO COUNTY FIPS CODES



29510
State County

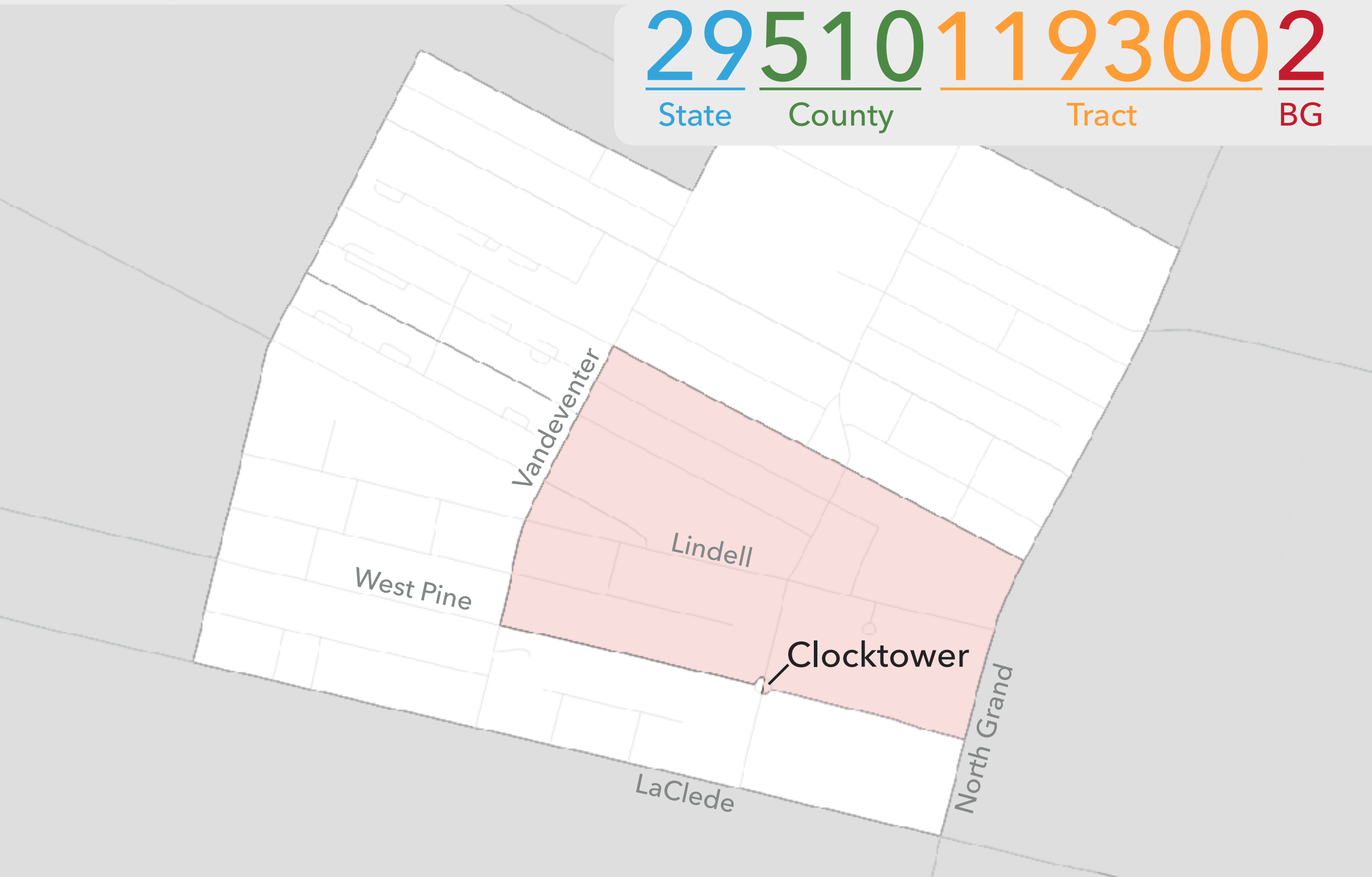
ST. LOUIS CITY CENSUS TRACTS



29510119300
State County Tract

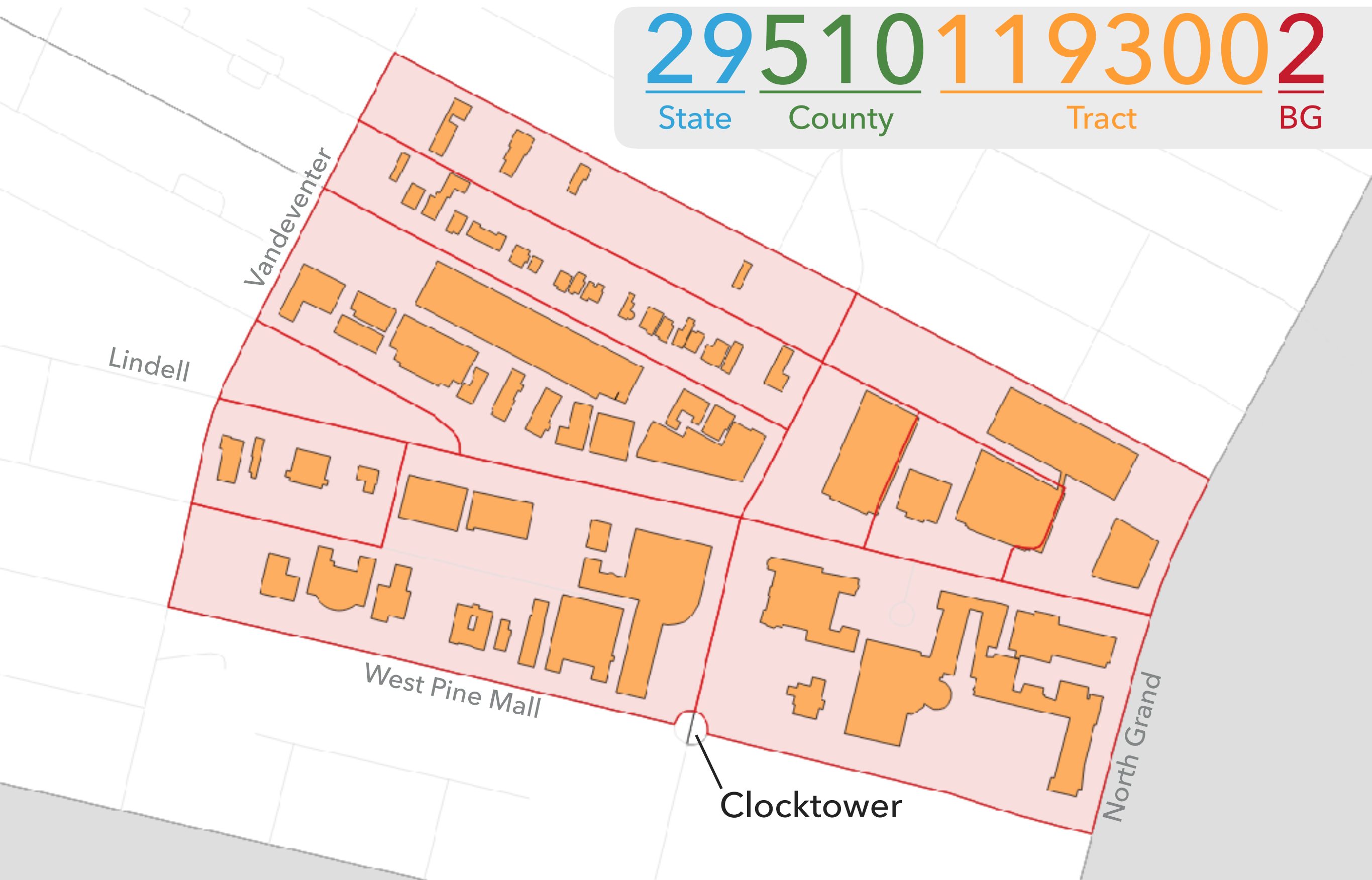
SLU CENSUS BLOCK GROUPS

29	510	119300	2
<u>State</u>	<u>County</u>	<u>Tract</u>	<u>BG</u>



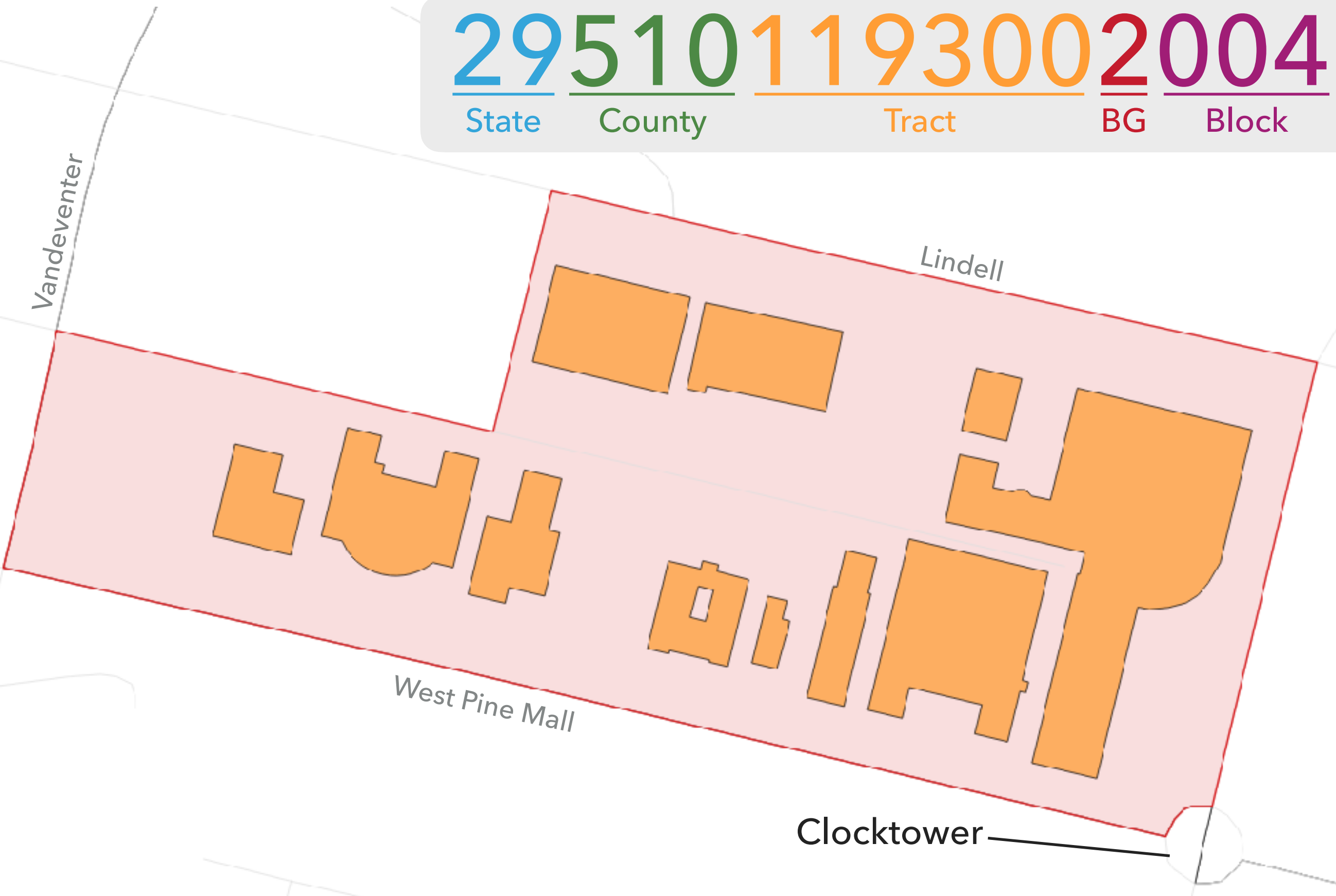
SLU CENSUS BLOCKS

295101193002			
State	County	Tract	BG



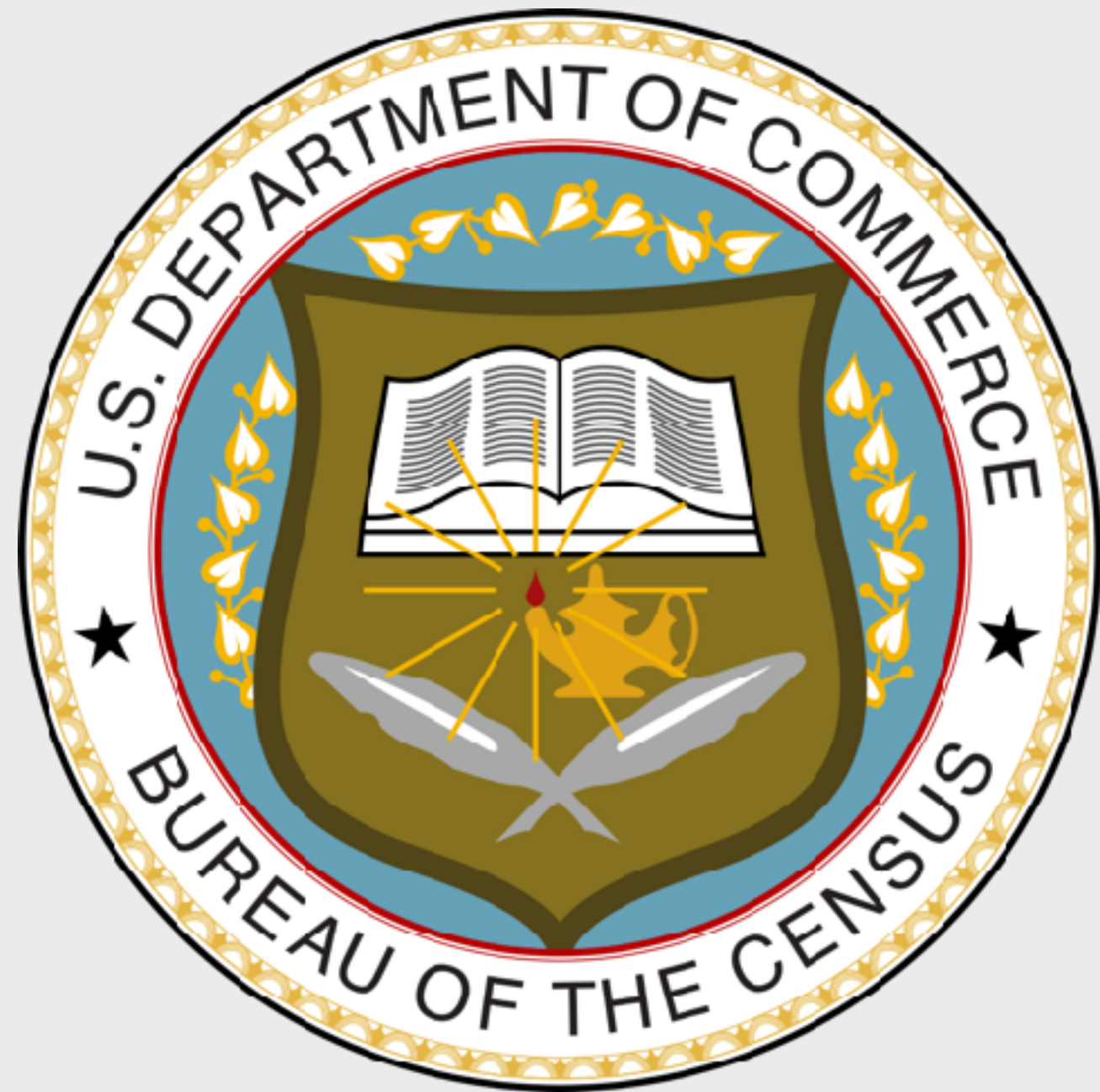
SLU CENSUS BLOCKS

295101193002004
State County Tract BG Block



2 CENSUS DATA PRODUCTS

U.S. CENSUS BUREAU



PRIMARY PRODUCTS

**AMERICAN
COMMUNITY
SURVEY**

**DECENNIAL
CENSUS**

TIGER

**CURRENT
POPULATION
SURVEY**

3 AMERICAN FACT FINDER

4 CLEANING CENSUS DATA

4. CLEANING CENSUS DATA

VARIABLE LABELS

GEO.id	GEO.id2	GEO.display-label	D001	D002
Id	Id2	Geography	Total:	For rent
1400000US29510101100	29510101100	Census Tract 1011, St. Louis city, Missouri	70	7
1400000US29510101200	29510101200	Census Tract 1012, St. Louis city, Missouri	125	41
1400000US29510101300	29510101300	Census Tract 1013, St. Louis city, Missouri	161	51
1400000US29510101400	29510101400	Census Tract 1014, St. Louis city, Missouri	211	55
1400000US29510101500	29510101500	Census Tract 1015, St. Louis city, Missouri	253	94
1400000US29510101800	29510101800	Census Tract 1018, St. Louis city, Missouri	359	100

4. CLEANING CENSUS DATA

IMPORT DATA SELECTIVELY

```
import delimited fileName.csv, varnames(1) rowrange(start:end)
```

```
. import delimited DEC_10_SF1_H5.csv, varnames(1) rowrange(3:107)
```

4. CLEANING CENSUS DATA

VARIABLE LABELS

GEO.id	GEO.id2	GEO.display-label	D001	D002
1400000US29510101100	29510101100	Census Tract 1011, St. Louis city, Missouri	70	7
1400000US29510101200	29510101200	Census Tract 1012, St. Louis city, Missouri	125	41
1400000US29510101300	29510101300	Census Tract 1013, St. Louis city, Missouri	161	51
1400000US29510101400	29510101400	Census Tract 1014, St. Louis city, Missouri	211	55
1400000US29510101500	29510101500	Census Tract 1015, St. Louis city, Missouri	253	94
1400000US29510101800	29510101800	Census Tract 1018, St. Louis city, Missouri	359	100

4. CLEANING CENSUS DATA

DROP UNNEEDED VARIABLES

GEO.id	GEO.id2	GEO.display-label	D001	D002
1400000US29510101100	29510101100	Census Tract 1011, St. Louis city, Missouri	70	7
1400000US29510101200	29510101200	Census Tract 1012, St. Louis city, Missouri	125	41
1400000US29510101300	29510101300	Census Tract 1013, St. Louis city, Missouri	161	51
1400000US29510101400	29510101400	Census Tract 1014, St. Louis city, Missouri	211	55
1400000US29510101500	29510101500	Census Tract 1015, St. Louis city, Missouri	253	94
1400000US29510101800	29510101800	Census Tract 1018, St. Louis city, Missouri	359	100

DROP UNNEEDED VARIABLES

GEO.id2	D001
29510101100	70
29510101200	125
29510101300	161
29510101400	211
29510101500	253
29510101800	359

SIMPLIFY & CLARIFY VARIABLE NAMES

GEO.id2	D001
29510101100	70
29510101200	125
29510101300	161
29510101400	211
29510101500	253
29510101800	359

4. CLEANING CENSUS DATA

SIMPLIFY & CLARIFY VARIABLE NAMES

geoid	totalUnits
29510101100	70
29510101200	125
29510101300	161
29510101400	211
29510101500	253
29510101800	359

DESTRING NUMERIC VARIABLES

geoid	totalUnits
29510101100	70
29510101200	125
29510101300	161
29510101400	211
29510101500	253
29510101800	359

4. CLEANING CENSUS DATA

FIX GEOID DISPLAY

geoid	totalUnits
2.951E+10	70
2.951E+10	125
2.951E+10	161
2.951E+10	211
2.951E+10	253
2.951E+10	359

4. CLEANING CENSUS DATA

FIX GEOID DISPLAY

`format varname fmt`

`. format geoid %11.0f`

4. CLEANING CENSUS DATA

FIX GEOID DISPLAY

geoid	totalUnits
29510101100	70
29510101200	125
29510101300	161
29510101400	211
29510101500	253
29510101800	359