

Sociology 213 Lab 6

Creating a metro-area map in Arcview for the Detroit metropolitan area.

1. First, let's figure out which counties are in the Detroit metro area (I have given you a hard copy at the end of this handout, but you will need to know this to do the homework)
<http://www.census.gov/population/estimates/metro-city/99mfips.txt>

2. Go to www.esri.com and follow the links to census 2000 data.

This will lead you to the following URL:

Download Arcview Census-Tiger shapefiles

http://www.esri.com/data/download/census2000_tigerline/index.html

3. Follow my directions to download census tract shapefiles and demographics:

select state

select layer

Need to download **census tracts** (for the metropolitan counties you will be using) and **census tract demographics SF1** (for the whole state—it is easier).

click on “proceed to download”

backclick on “download now”, save link as...

4. Open the census tract shapefile in Arcview, and merge the counties together to make a single metropolitan area shapefile. (Using the geoprocessing wizard, described in 28-10 of Getting to Know Arcview)

5. Merge the demographic file onto the shapefile.

6. Make a variable pctblack for the % black in the tract (follow my directions, also depicted in 15-15 of Getting to Know Arcview)

For future reference:

Downloading Tiger-line files from the census

<http://www.census.gov/geo/www/tiger/tiger2k/tgr2000.html>

differences between the redistricting 2000 Census-Tiger files and the updated files:

<http://www.census.gov/geo/www/tiger/tiger2k/rdchg2k.txt>

Chicago:

MSA	PMSA	State	County	
1602		14		Chicago-Gary-Kenosha, IL-IN-WI CMSA
1602	1600	14		Chicago, IL PMSA
1602	1600	14	17031 1	Cook County
1602	1600	14	17037 2	DeKalb County
1602	1600	14	17043 1	DuPage County
1602	1600	14	17063 2	Grundy County
1602	1600	14	17089 1	Kane County
1602	1600	14	17093 2	Kendall County
1602	1600	14	17097 1	Lake County
1602	1600	14	17111 1	McHenry County
1602	1600	14	17197 1	Will County
1602	2960	14		Gary, IN PMSA
1602	2960	14	18089 1	Lake County
1602	2960	14	18127 2	Porter County
1602	3740	14		Kankakee, IL PMSA
1602	3740	14	17091 1	Kankakee County
1602	3800	14		Kenosha, WI PMSA
1602	3800	14	55059 1	Kenosha County

Detroit:

MSA	PMSA	State	County	
2162		35		Detroit-Ann Arbor-Flint, MI CMSA
2162	0440	35		Ann Arbor, MI PMSA
2162	0440	35	26091 2	Lenawee County
2162	0440	35	26093 2	Livingston County
2162	0440	35	26161 1	Washtenaw County
2162	2160	35		Detroit, MI PMSA
2162	2160	35	26087 2	Lapeer County
2162	2160	35	26099 1	Macomb County
2162	2160	35	26115 2	Monroe County
2162	2160	35	26125 1	Oakland County
2162	2160	35	26147 1	St. Clair County
2162	2160	35	26163 1	Wayne County
2162	2640	35		Flint, MI PMSA
2162	2640	35	26049 1	Genesee County

Sprawl

<http://www.sprawlcity.org/news/01-0417.html>

<http://www.ces.clemson.edu/semaps/jpeg/7aatl/7a1.html>

urban tract: 1,000 people per mile

Demographer

A

B

C

D

E

F

G

PMSA

New York

The Triangle

Chicago

Los Angeles

Atlanta

Phoenix

Cleveland