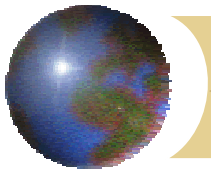


Mapping for Sociologists: Some Great Maps and How to Use Them

John R. Logan and Deirdre Oakley
Lewis Mumford Center



Census 2000 – Atlanta, GA

Entire Metropolitan Area

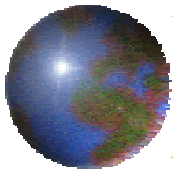
- *Index of Dissimilarity (D)*
 - White with Black = 65.6

- *Isolation Indices (P*)*
 - White with White = 76.4
 - Black with Black = 62.6

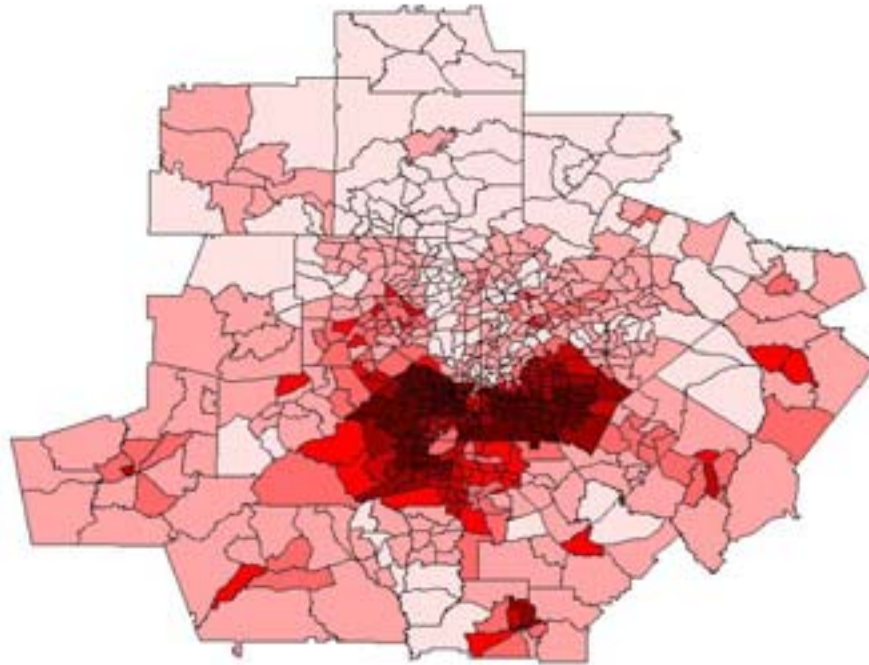
City Only

- *Index of Dissimilarity (D)*
 - White with Black = 81.6

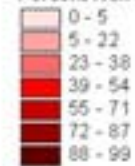
- *Isolation Indices (P*)*
 - White with White = 72.7
 - Black with Black = 86.2



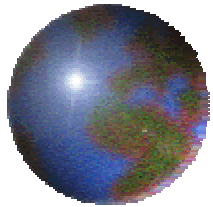
Percent Non-Hispanic Black
Atlanta -- 2000



Percent Non-Hispanic Black

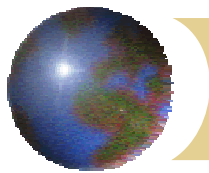


10 0 10 20 Miles

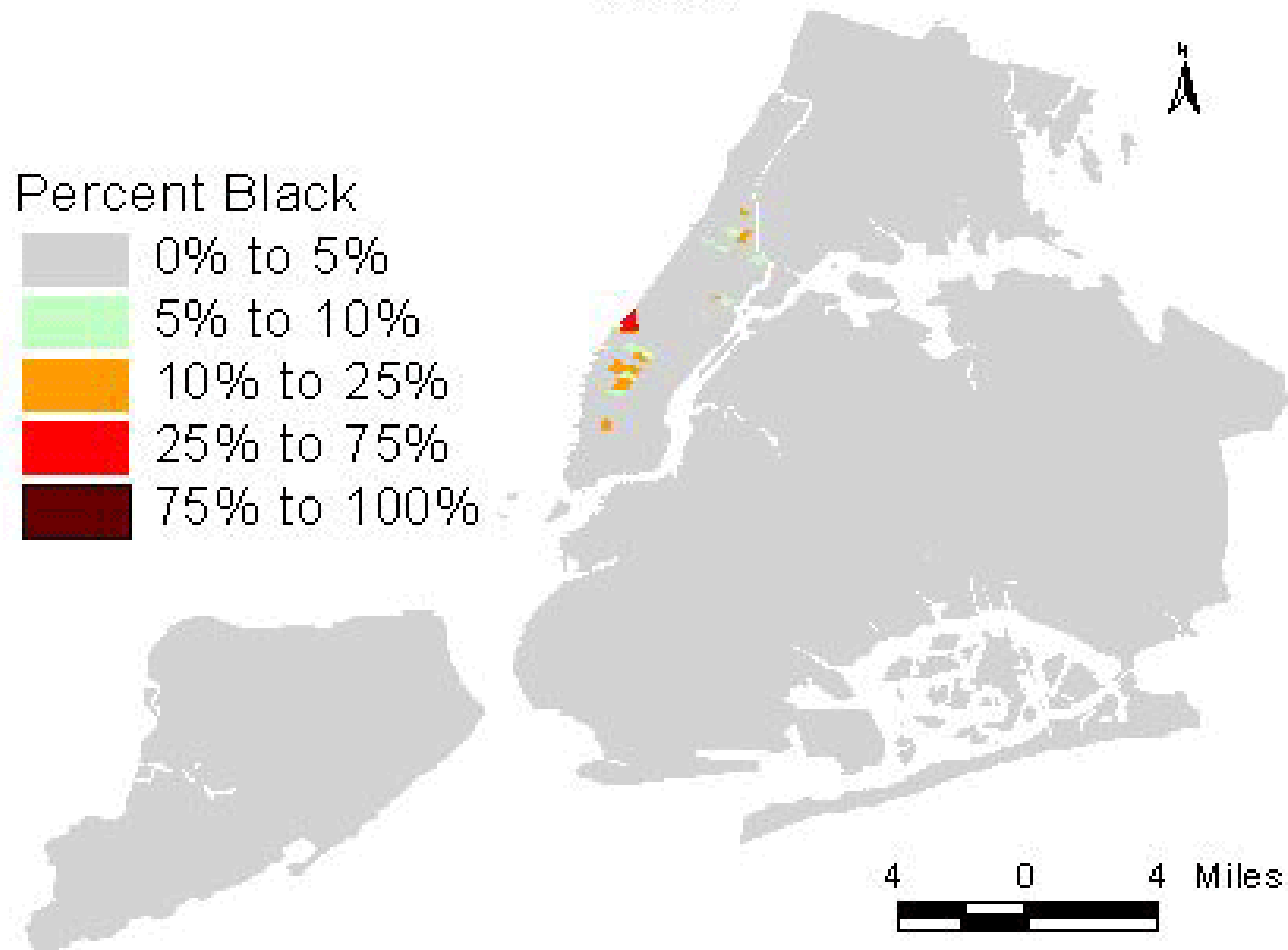


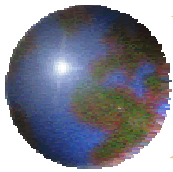
Showing Change Over Time



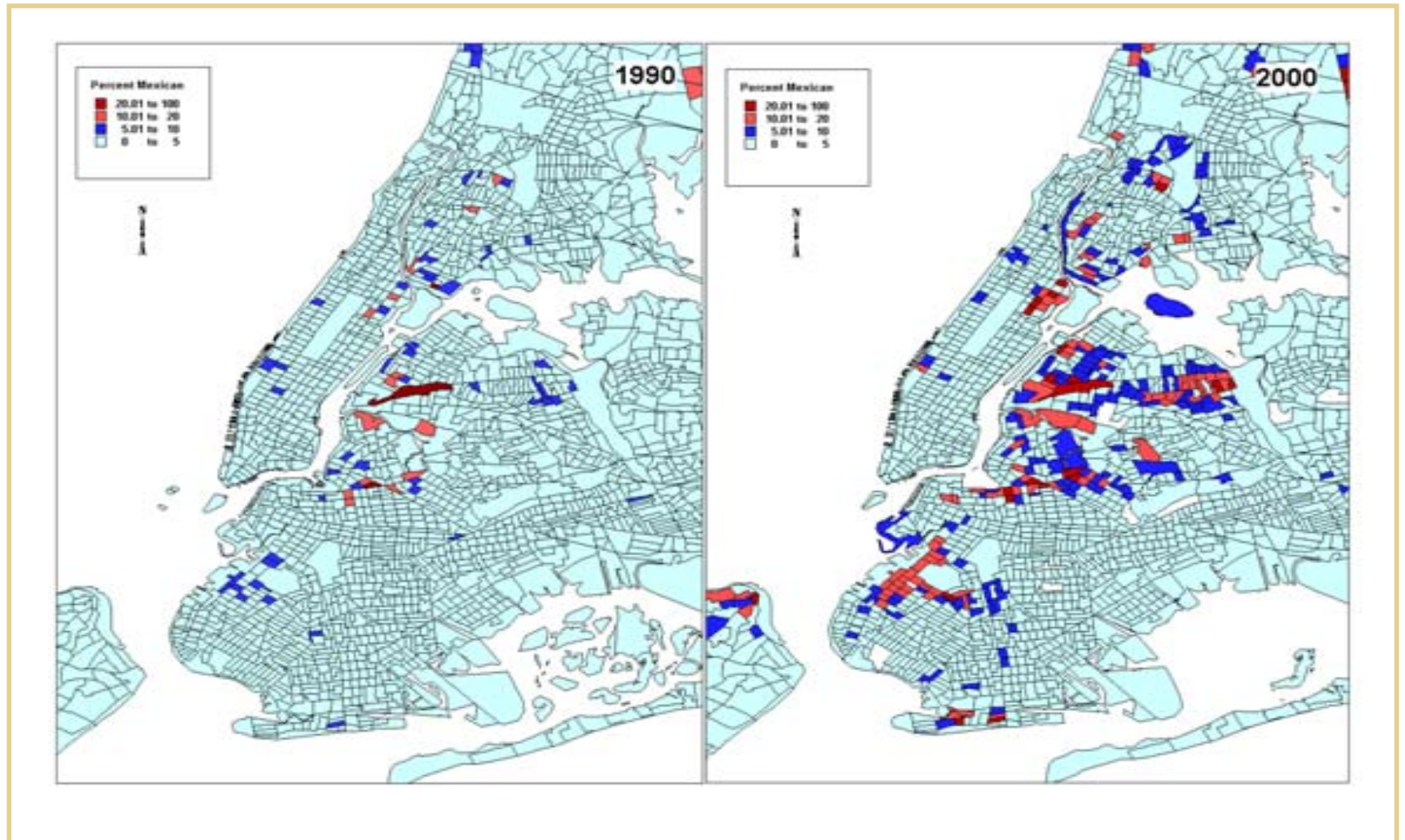


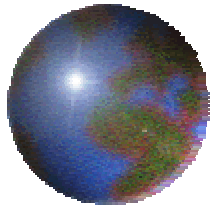
Black Neighborhoods in New York City 1900



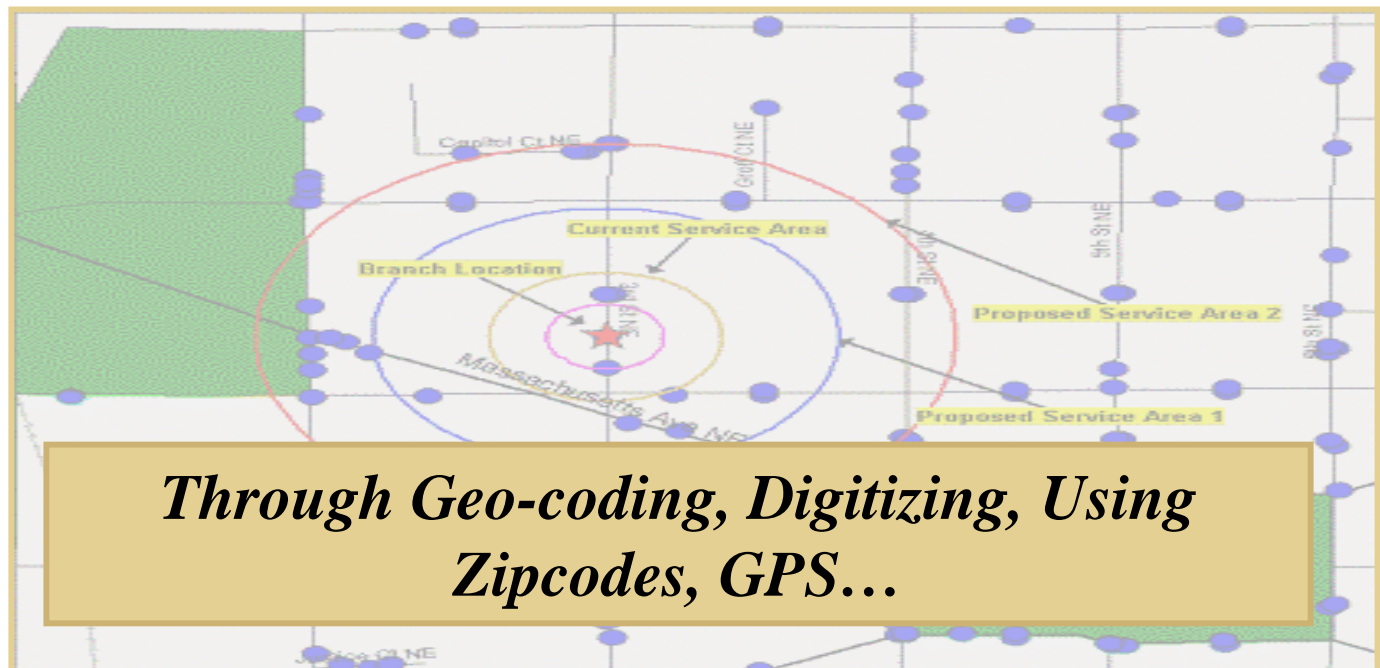


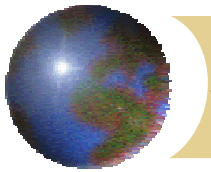
Mexican Population Increase in New York City





Using Unique Data Sources

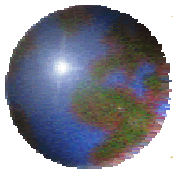




*This spreadsheet has a lot of
information, but ...*

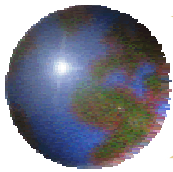
Location of factories in Brooklyn, 1917

Type of factory	Greenpoint	Wmsburg	Bushwick	Bed Stuy	Downtown	East NY	Brownsville	Crown Hts
Oil and Chemical	22	18	1	2	12		1	
Tailoring and Millinery	32	96	69	15	15	4	76	1
Glass, Brick, Tile	8	6	2	2	6	1		
Food	16	20	7	7	24	2	1	8
Flax, Hemp and Jute	2				1			
Metal, Machinery	33	8	6	2	31	2		2
Printing	10	3	4	1	14			1
Boots and Shoes	8	2		3	14			3

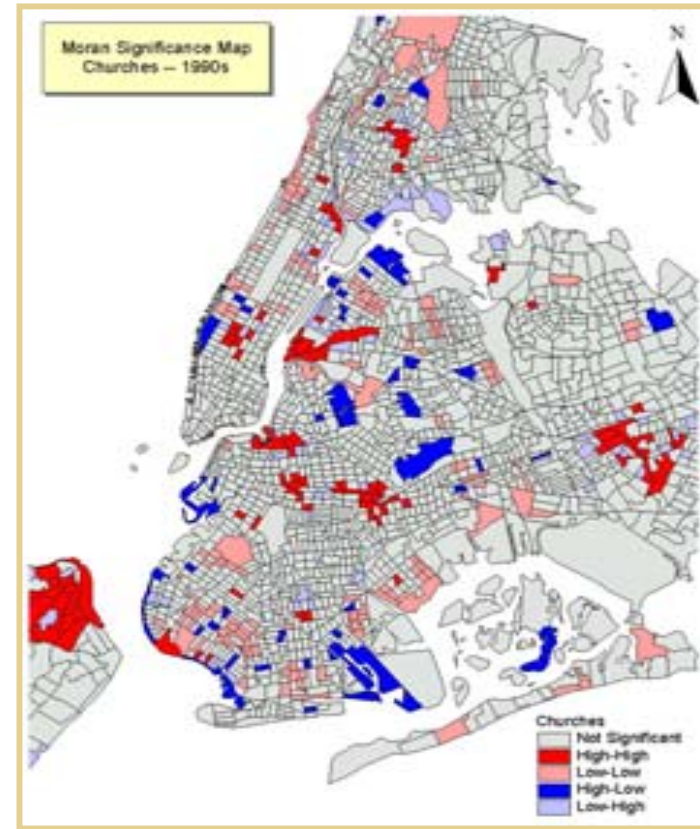
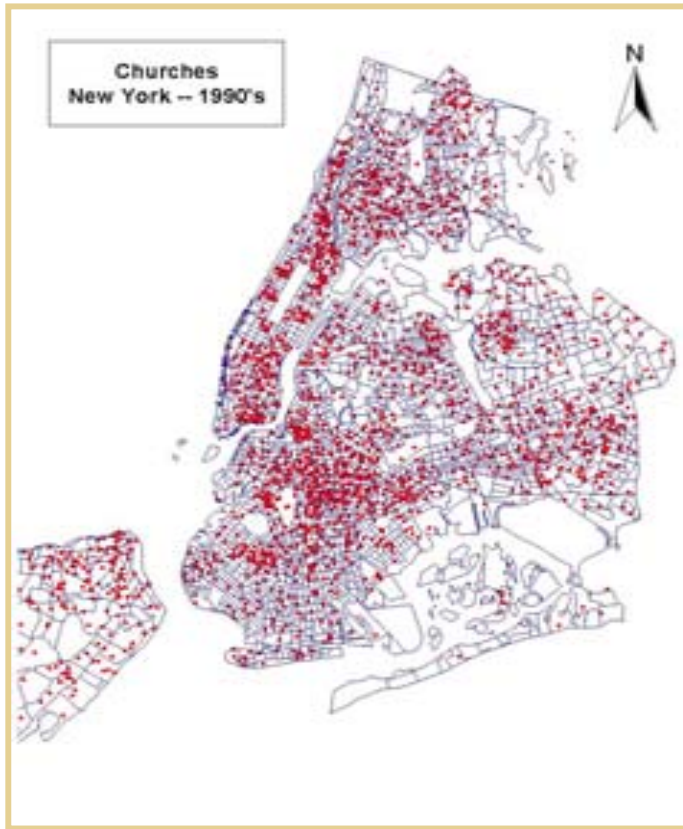


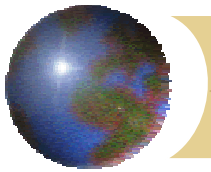
*... you learn
more from the
map*





Geocoding





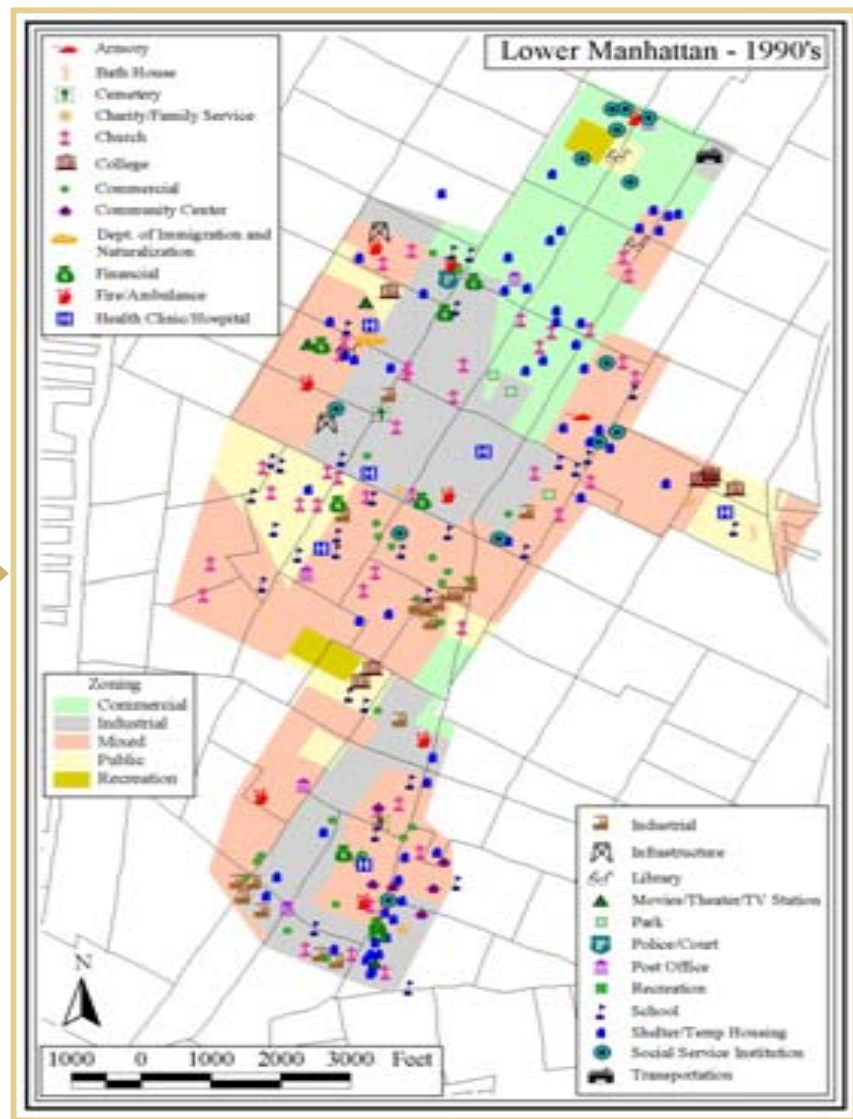
Geo-coding & Digitizing

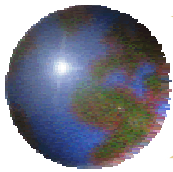


Zoning Map



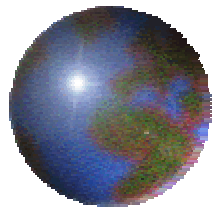
Sanborn Land Use Map





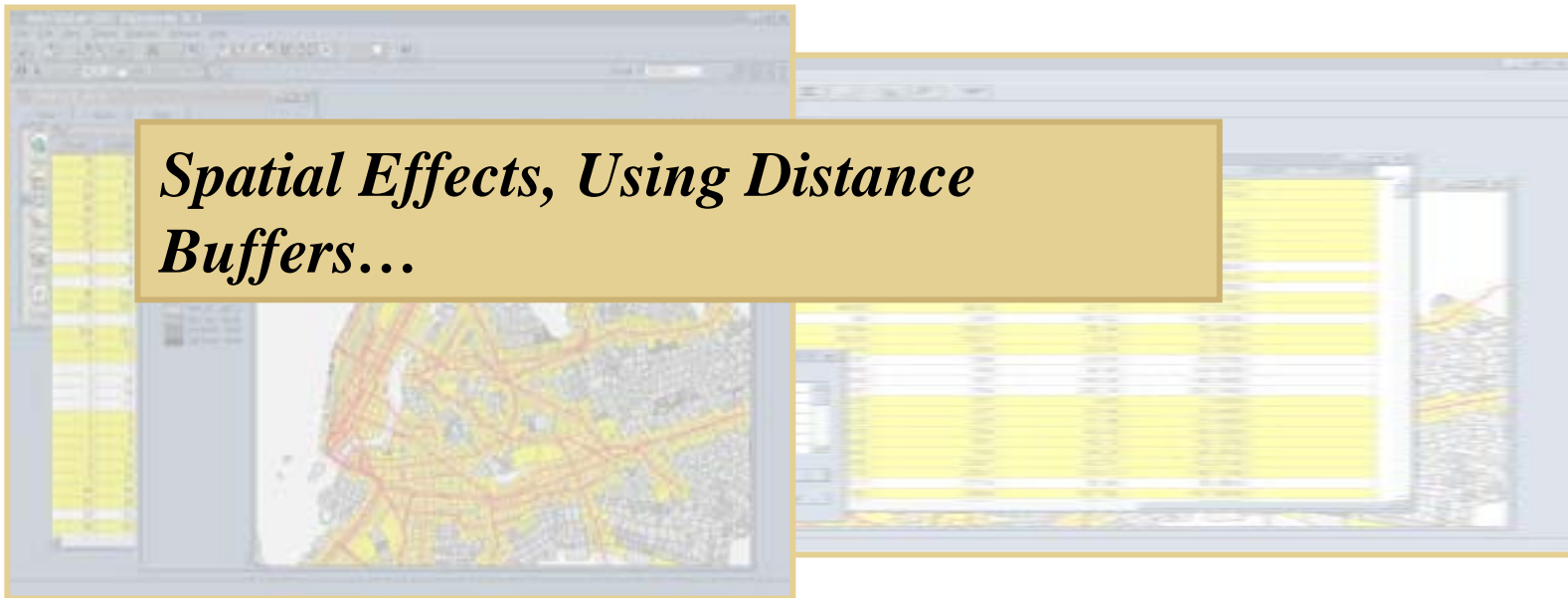
Geo-referencing with GPS Devices

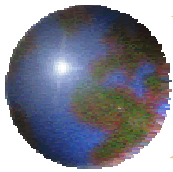




Analyzing Data with Maps

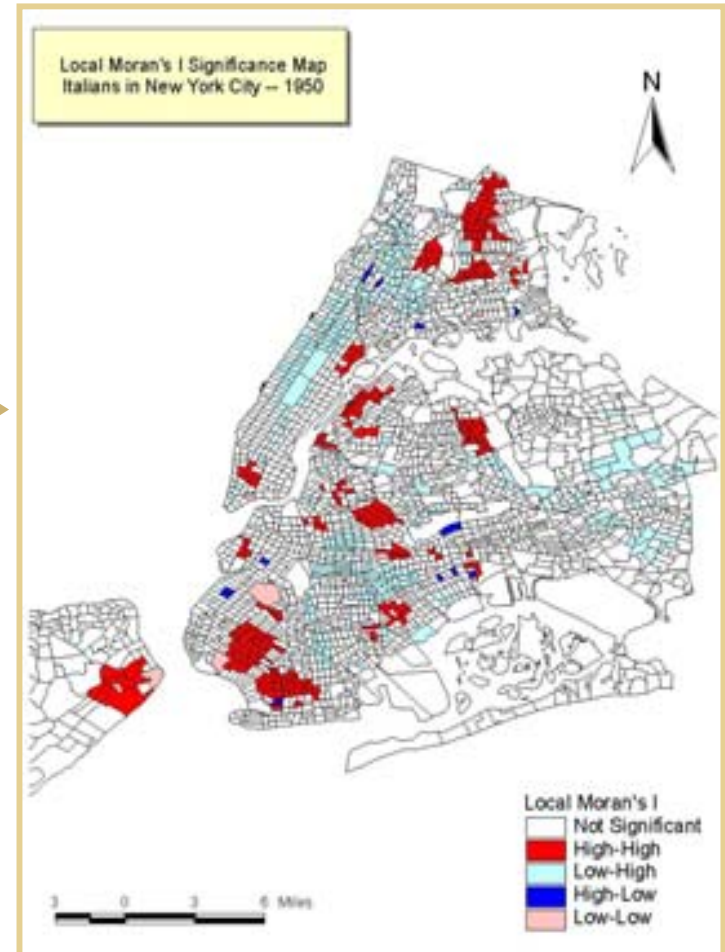
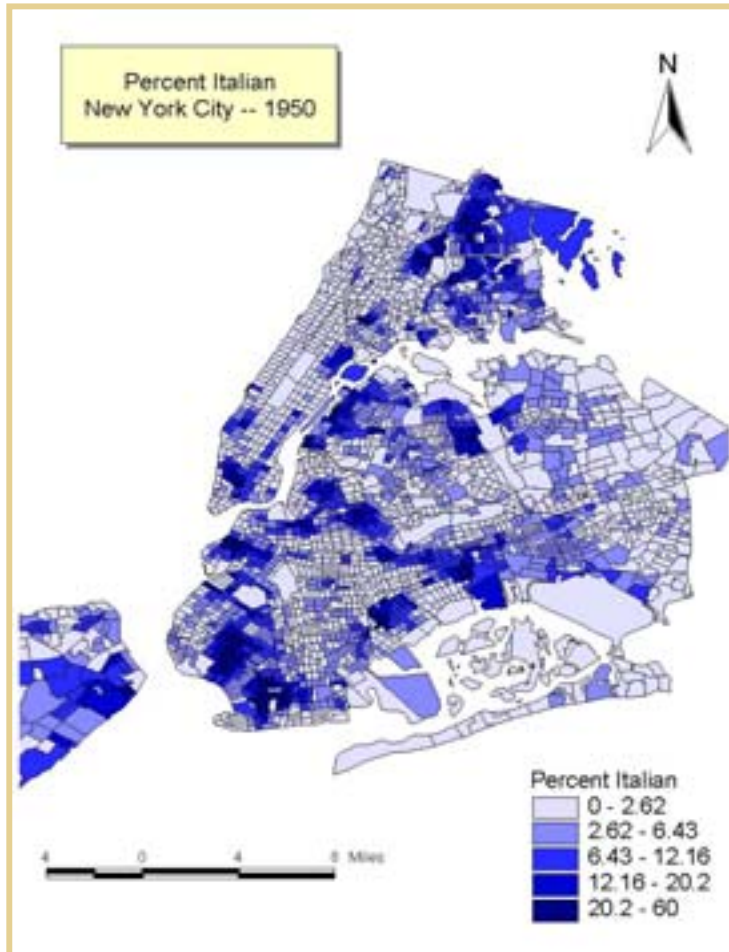
*Spatial Effects, Using Distance
Buffers...*

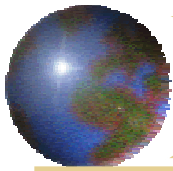




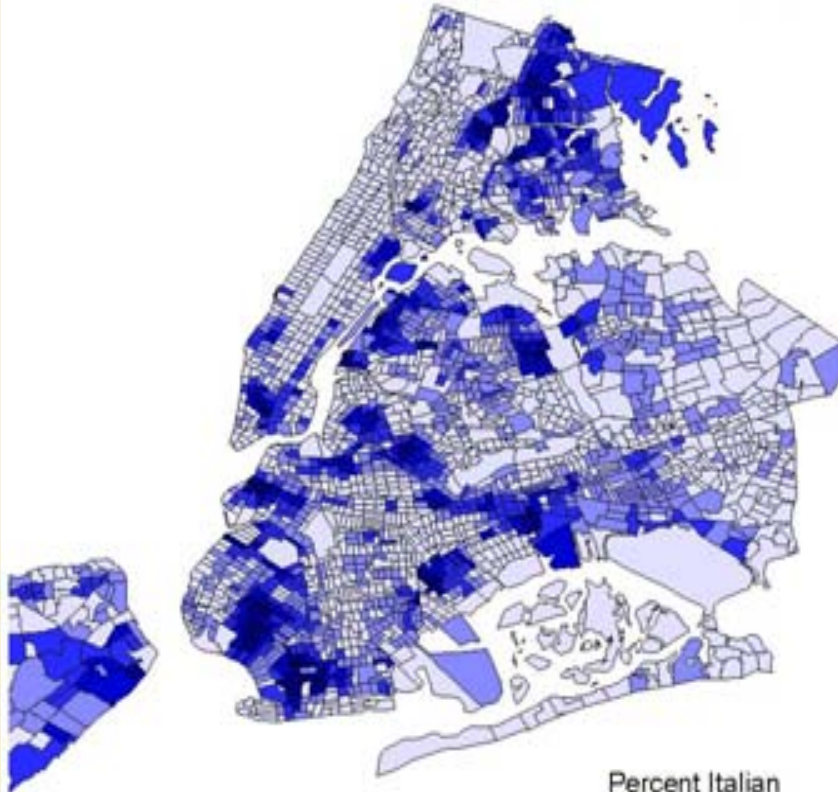
Assessing Spatial Effects

Ethnic Neighborhood Identification





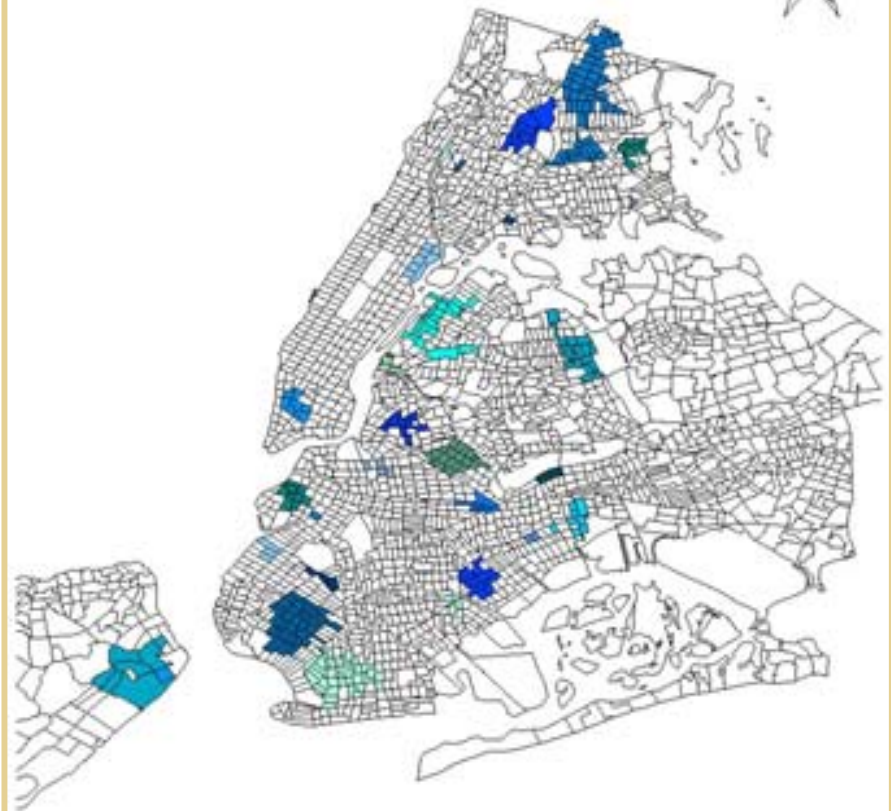
Percent Italian
New York City -- 1950



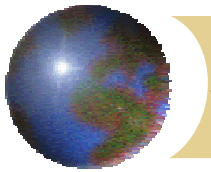
4 0 4 8 Miles



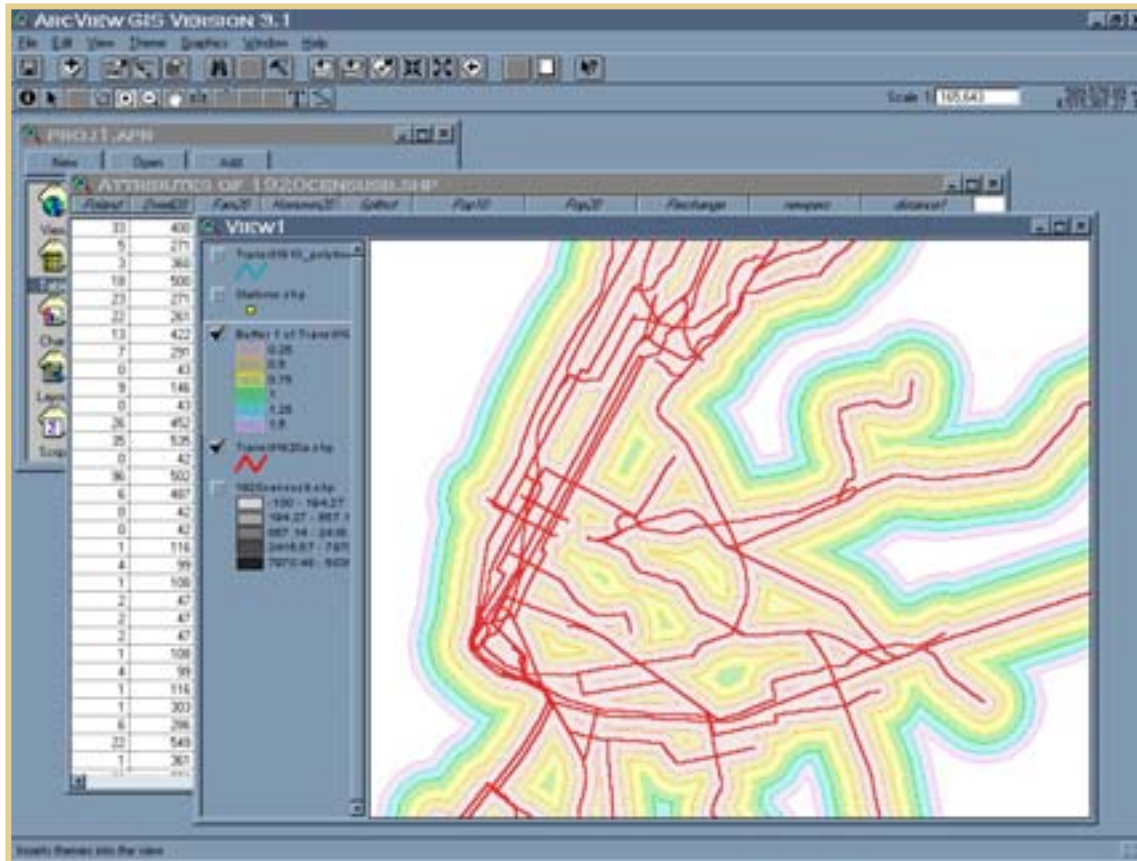
Italian Neighborhoods
New York City -- 1950

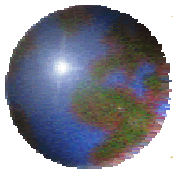


4 0 4 8 Miles

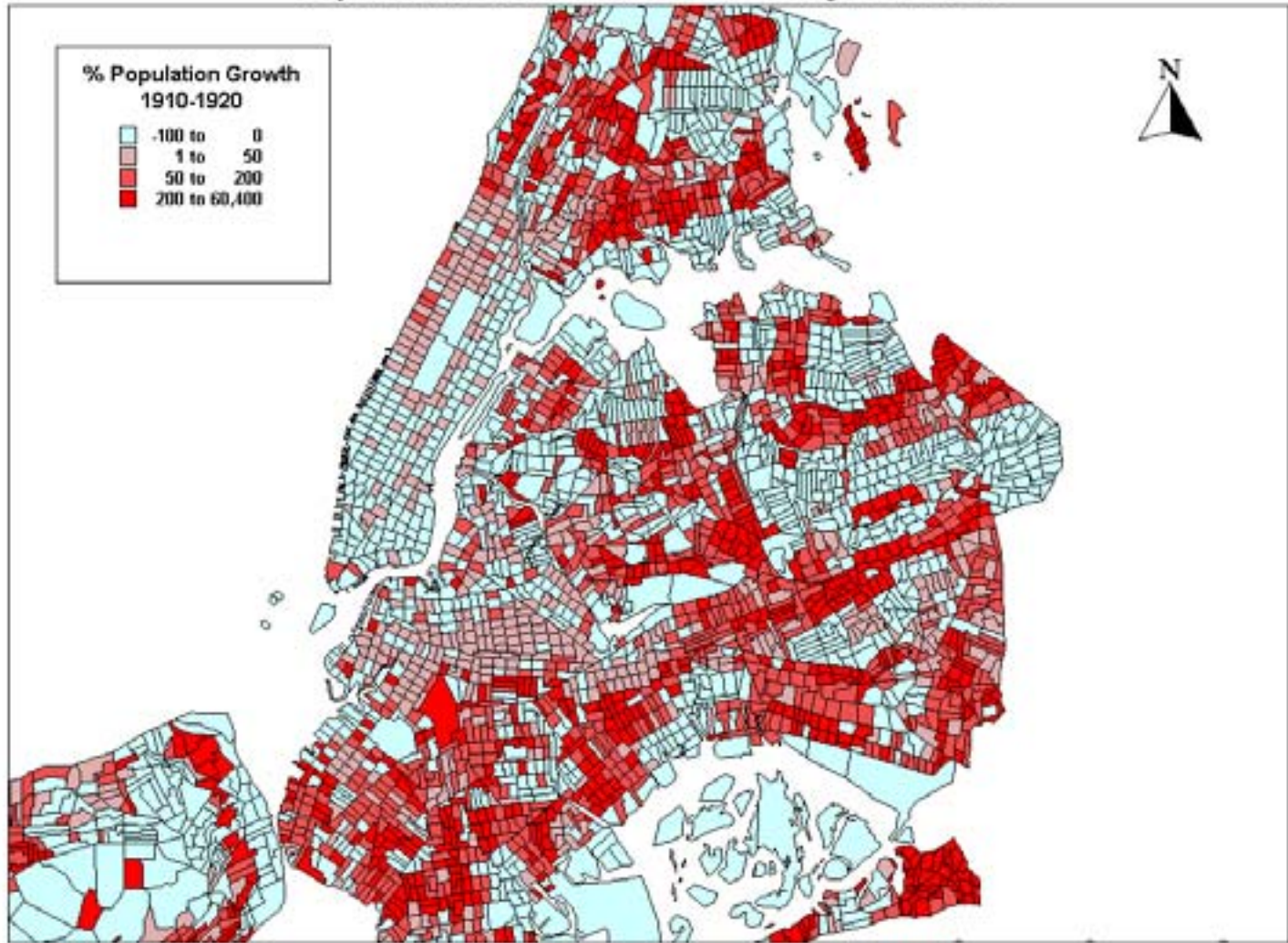


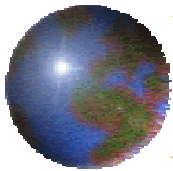
Using Distance as a Variable



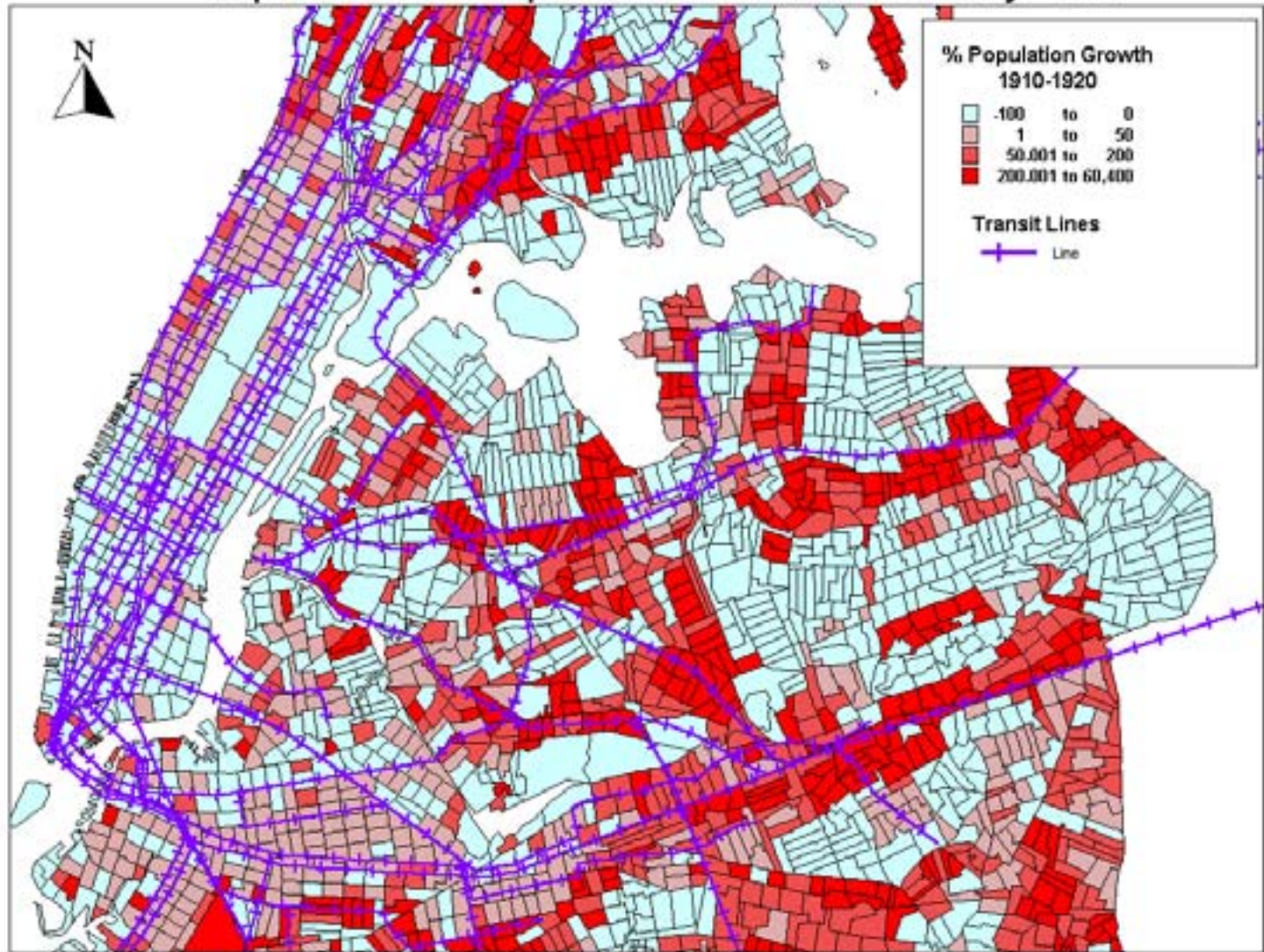


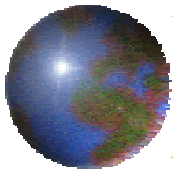
Population Growth in New York City: 1910-1920



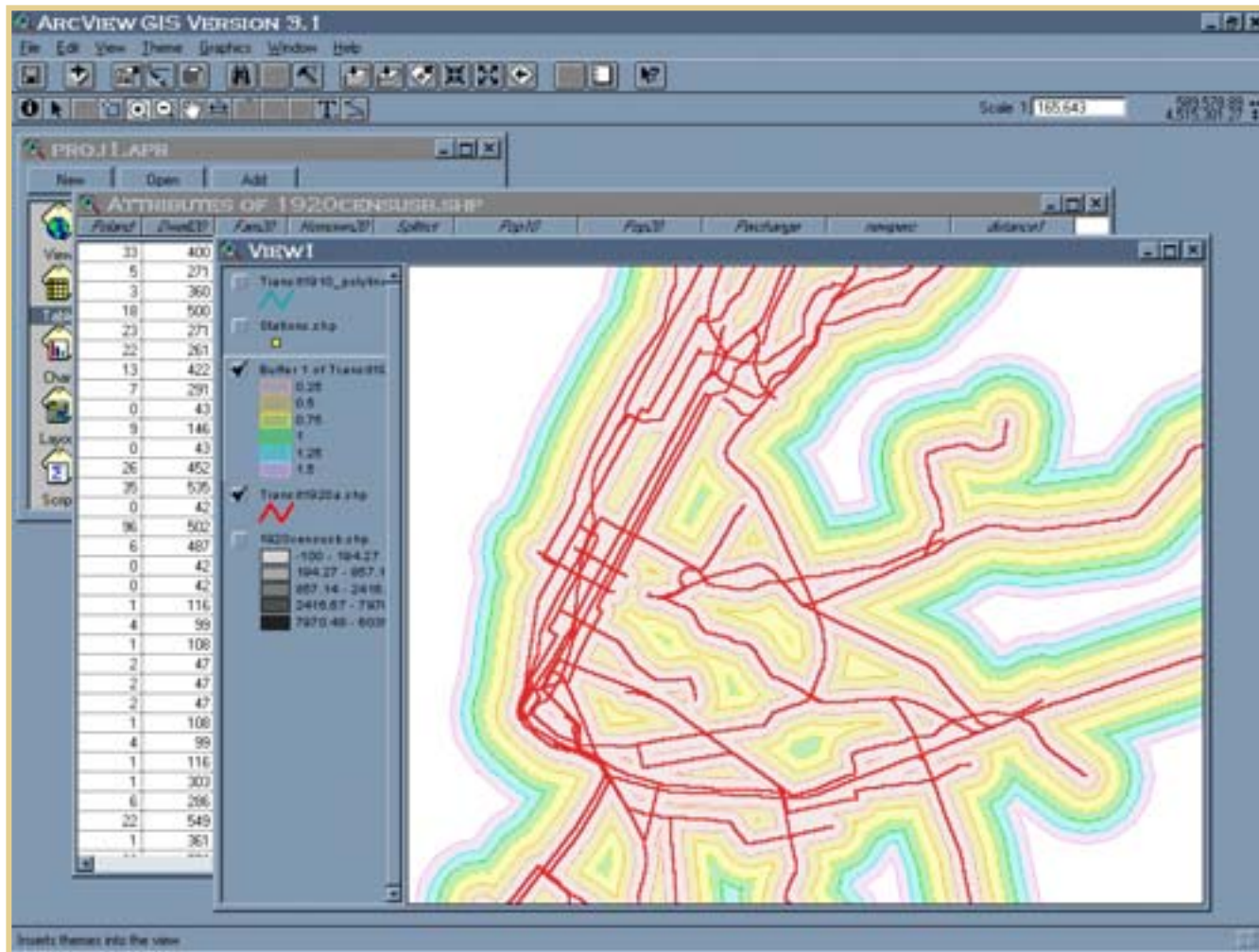


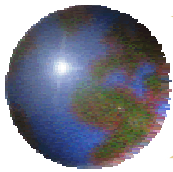
Rapid Transit and Population Growth in New York City – 1920



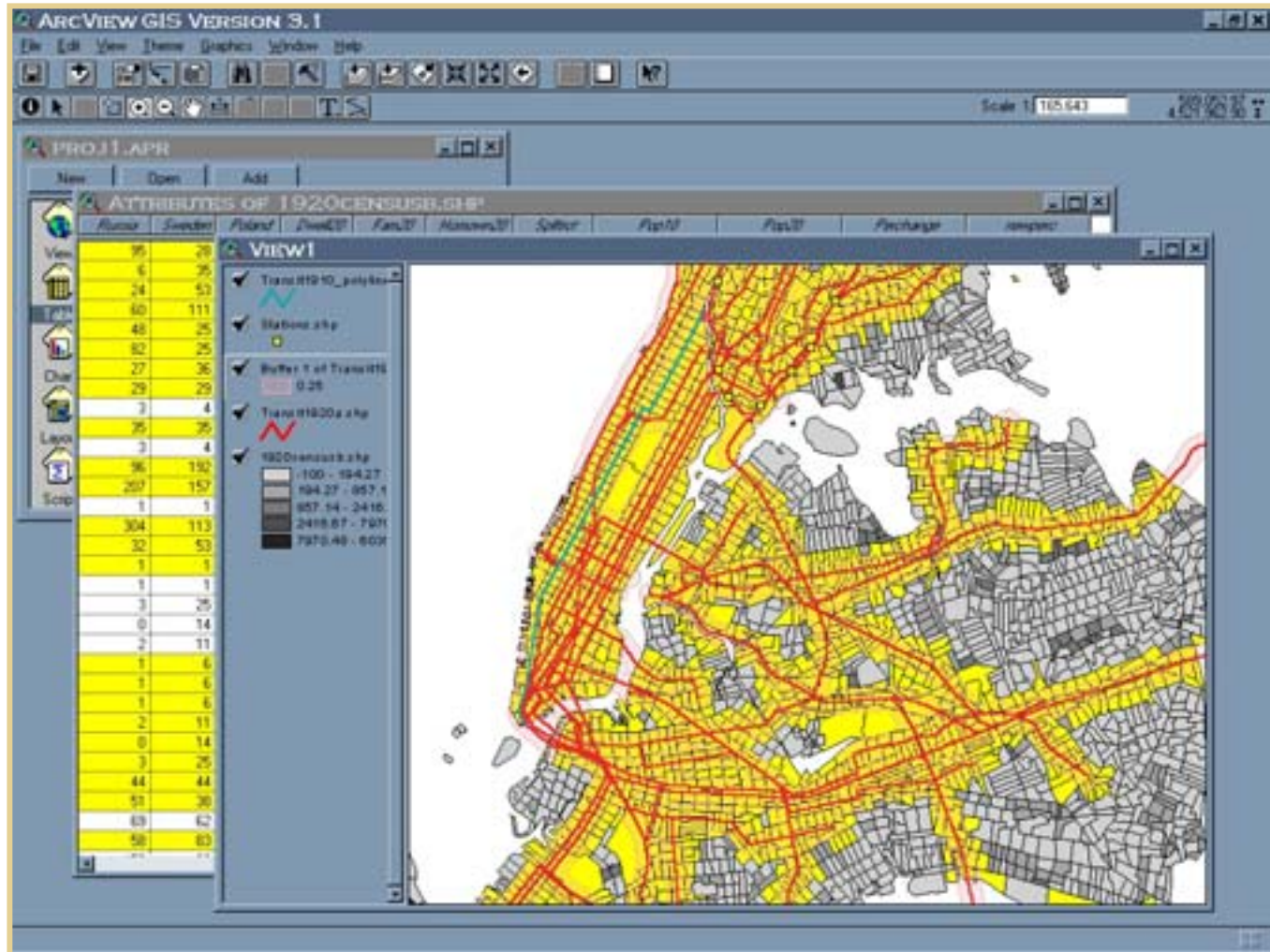


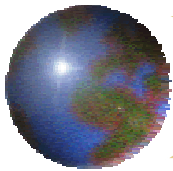
Creating Distance Buffers





Selecting Tracts Based on Buffer Distance

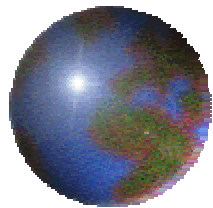




Creating Dummy Variables

The screenshot displays the ArcView GIS 3.1 interface. The main window shows a data table titled 'ATTRIBUTES OF 1920CENSUSB.SHP'. The table has the following columns: Poland, Dwell00, Fam00, Nonown00, Split0, Pop0, Pop00, Pchange, newperc, and distance1. The data is highlighted in yellow. A 'FIELD CALCULATOR' dialog box is open in the foreground, showing the 'Fields' list on the left and the 'Requests' list on the right. The 'Fields' list includes [Shape], [ID_1920], [State0], [County], [Newp], [Newp], and [Town]. The 'Requests' list is empty. The 'Type' section has radio buttons for Number, String, and Date. The 'distance1' field is selected in the 'Fields' list.

Poland	Dwell00	Fam00	Nonown00	Split0	Pop0	Pop00	Pchange	newperc	distance1
33	400	1121	71	1.00	3084	5709	85.12	85.1200	
5	271	764	120	3.00	1971	2645	25.21	25.2100	
3	360	940	106	5.00	0	4837	0.00		
18	500	1524	128	7.00	0	6193	0.00		
23	271	605	65	9.00	3714	2637	-23.61	-23.6100	
22	263	640	27	11.00	3503	3391	-3.14	-3.1400	
13	422	864	137	33.00	3262	3961	20.69	20.6900	
7	291	513	60	35.00	2672	3059	14.48	14.4800	
0	43	51	28	36.00	88	230	161.36	161.3600	
9	146	305	13	37.00	1480	1465	-1.01	-1.0100	
0	43	51	28	38.00	61	230	277.05	277.0500	
25	452	948	90	39.00	4305	4442	3.18	3.1800	
35	535	1162	203	41.00	4605	5630	17.17	17.1700	
0	42	46	38	42.00	64	208	147.62	147.6200	
96	502	1623	108	43.00	5184	6503	25.44	25.4400	
6	487	1142	196	45.00	5023	5321	5.93	5.9300	
1	43	51	28	46.00	84	208	-33.76	-33.7600	
70	208	208	208	47.00	208	208	-29.97	-29.9700	
455	748	748	748	48.00	64.40	64.40	64.4000	64.4000	
784	707	707	707	49.00	148.94	148.94	148.9400	148.9400	
197	754	754	754	50.00	202.74	202.74	202.7400	202.7400	
325	337	337	337	51.00	3.63	3.63	3.6300	3.6300	
373	337	337	337	52.00	23.44	23.44	23.4400	23.4400	
429	337	337	337	53.00	-21.45	-21.45	-21.4500	-21.4500	
470	754	754	754	54.00	60.43	60.43	60.4300	60.4300	
568	707	707	707	55.00	92.12	92.12	92.1200	92.1200	
406	748	748	748	56.00	84.24	84.24	84.2400	84.2400	
395	2267	2267	2267	57.00	62.51	62.51	62.5100	62.5100	
378	2567	2567	2567	58.00	138.13	138.13	138.1300	138.1300	
717	7774	7774	7774	59.00	25.90	25.90	25.9000	25.9000	
338	2584	2584	2584	60.00	167.86	167.86	167.8600	167.8600	



Using Web-based GIS

MAP NYS SOCIAL INDICATORS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Go

Google Search Web

http://www.abany.edu/~humbfnd/magny/

Go L111 Personal SUCC-Mail

MapNY

Mapping Counties and Neighborhoods for New York States

Home Tract Maps County Maps Download Help page

Welcome to Map New York!

Our Map New York project, a map-based information system developed with ArcIMS, connects communities with helpful information using data from the census as well as state and federal agency reports. Our project provides city, town and tract level information and, in a separate mapping page, county level data as well.

Before you begin, please make sure you are using Explorer or a version of Netscape higher than 4.7 as your browser.

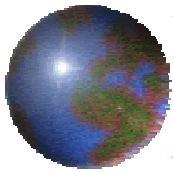
The Map NY application has two components: one for census tracts/towns level data which allows the user to map neighborhoods and one for county level data, useful in making comparisons across counties.

You can access the census tract/town level map OR the county level map and start our interactive mapping applications by clicking the appropriate map application link at the bottom of the page or the Map Application button on the menu tabs at the top of the page.

Once you click the links a new window appear with the title of the mapping system - Map New York Tracts/Town OR Map New York Counties in the upper left hand side corner of the page. Just below the title, you are asked to Choose a category then Choose a variable to map.

Just below the text is the list of two drop down menu allowing you to choose a category to map such as Population and Immigration or Race and Ethnicity and then to choose a variable such as Population density or Percent minority.

Done Internet



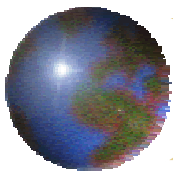
Map NY –

www.albany.edu/mumford/mapny

The screenshot shows a web browser window titled "Map New York Tracts - Microsoft Internet Explorer". The main content area is titled "Map New York Tracts" and features a blue-themed interface. On the left side, there is a control panel with the following elements:

- Text: "Choose a category then choose a variable to map"
- Dropdown menu: "Choose a Category"
- Text: "Choose a variable"
- Radio button: "Major Roads" (selected)
- Button: "Refresh Map"
- Legend box with a white background and blue border:
 - Blue square: "Water"
 - White square: "County"

The central map displays the state of New York with county boundaries and names. The water bodies (Great Lakes, Lake Erie, Lake Ontario, Hudson River, and Long Island Sound) are highlighted in blue. The map includes a "Zoom In" toolbar at the top right and "Help" and "About" buttons on the right side. At the bottom of the map area, there is a scale bar and a north arrow. Below the map, a text box reads: "From this map you can see the actual tract/town data for the following variables, or use these variables in a query: STPID of Tracts".



Choose a Category

Map New York Tracts - Microsoft Internet Explorer

Map New York Tracts

Choose a category then choose a variable to map

Choose a Category

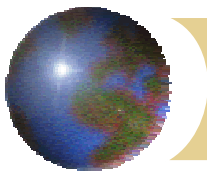
- Choose a Category
- Population and Immigration
- Race and Ethnicity
- Economic**
- Housing
- Education
- Disability and Veteran Status
- Age and Gender
- Poverty by Race and Age
- Household Composition
- Population

Water

County

Town

From this map you can see the actual tract/town data for the following variables, or use these variables in a query: STFID of Tracts



Select a Variable

Map New York Tracts - Microsoft Internet Explorer

Map New York Tracts

Choose a category then choose a variable to map

Economic

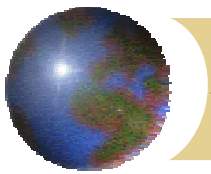
- Choose a variable
- Choose a variable
- Median household income (town)
- Per capita income (town)
- Percent poverty (town)
- Percent professional (town)
- Unemployment rate (town)
- Median household income (tract)
- Per capita income (tract)
- Percent poverty (tract)
- Percent professional (tract)
- Unemployment rate (tract)

ID Visible Features

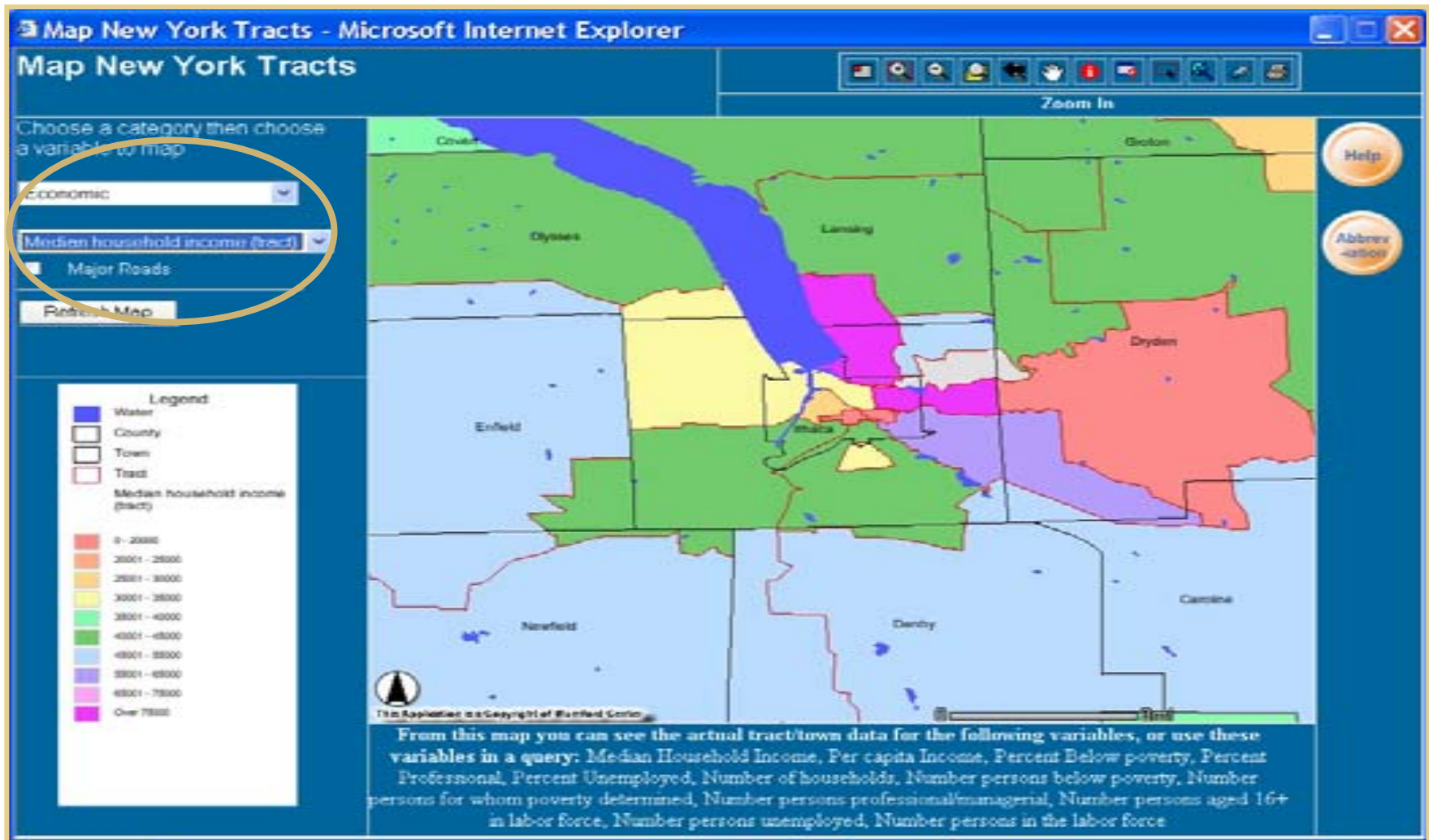
Help

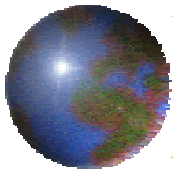
Address

From this map you can see the actual tract/town data for the following variables, or use these variables in a query: Median Household Income, Per capita Income, Percent Below poverty, Percent Professional, Percent Unemployed, Number of households, Number persons below poverty, Number persons for whom poverty determined, Number persons professional/managerial, Number persons aged 16+ in labor force, Number persons unemployed, Number persons in the labor force

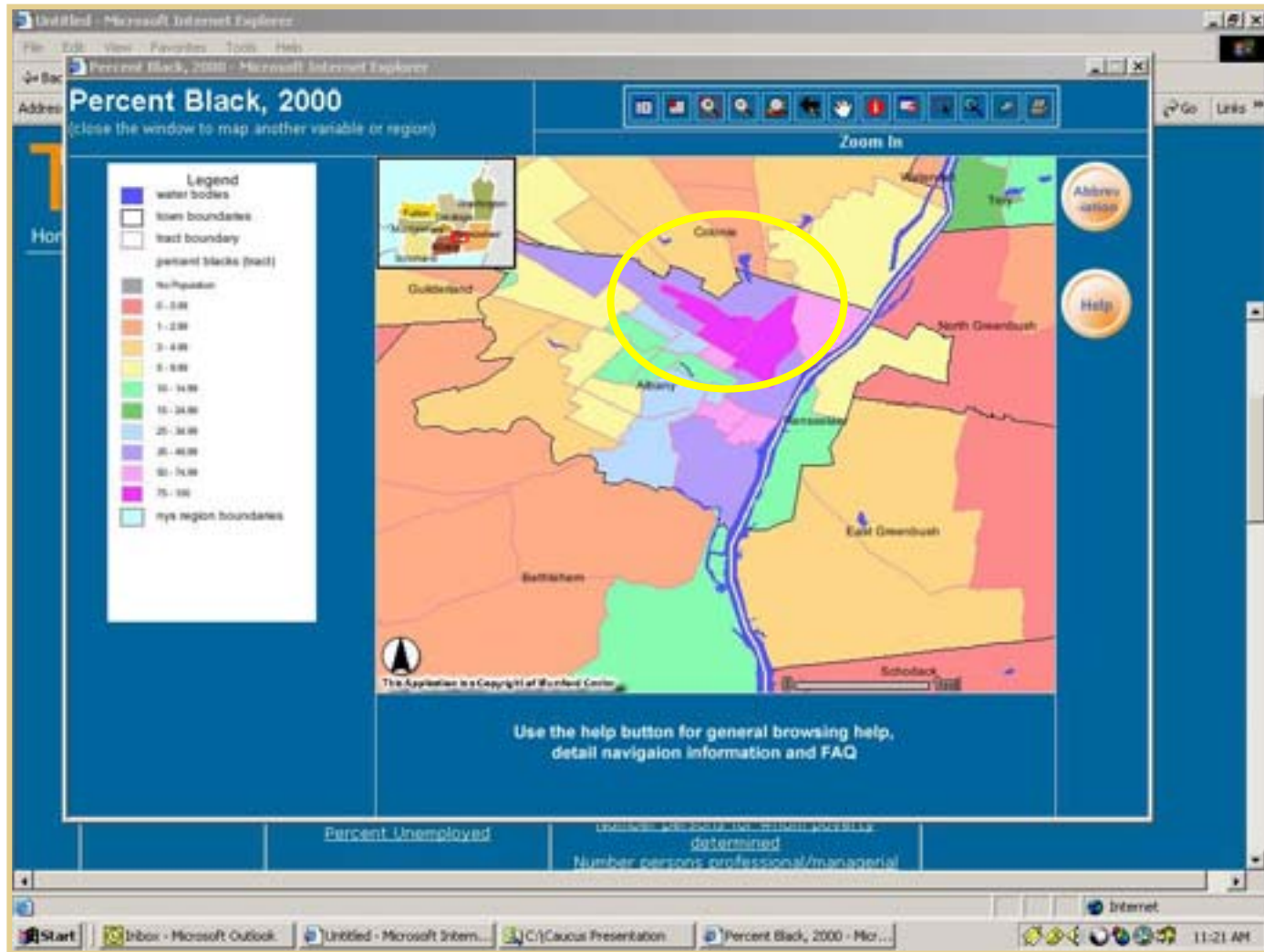


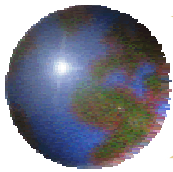
Census Tract Level



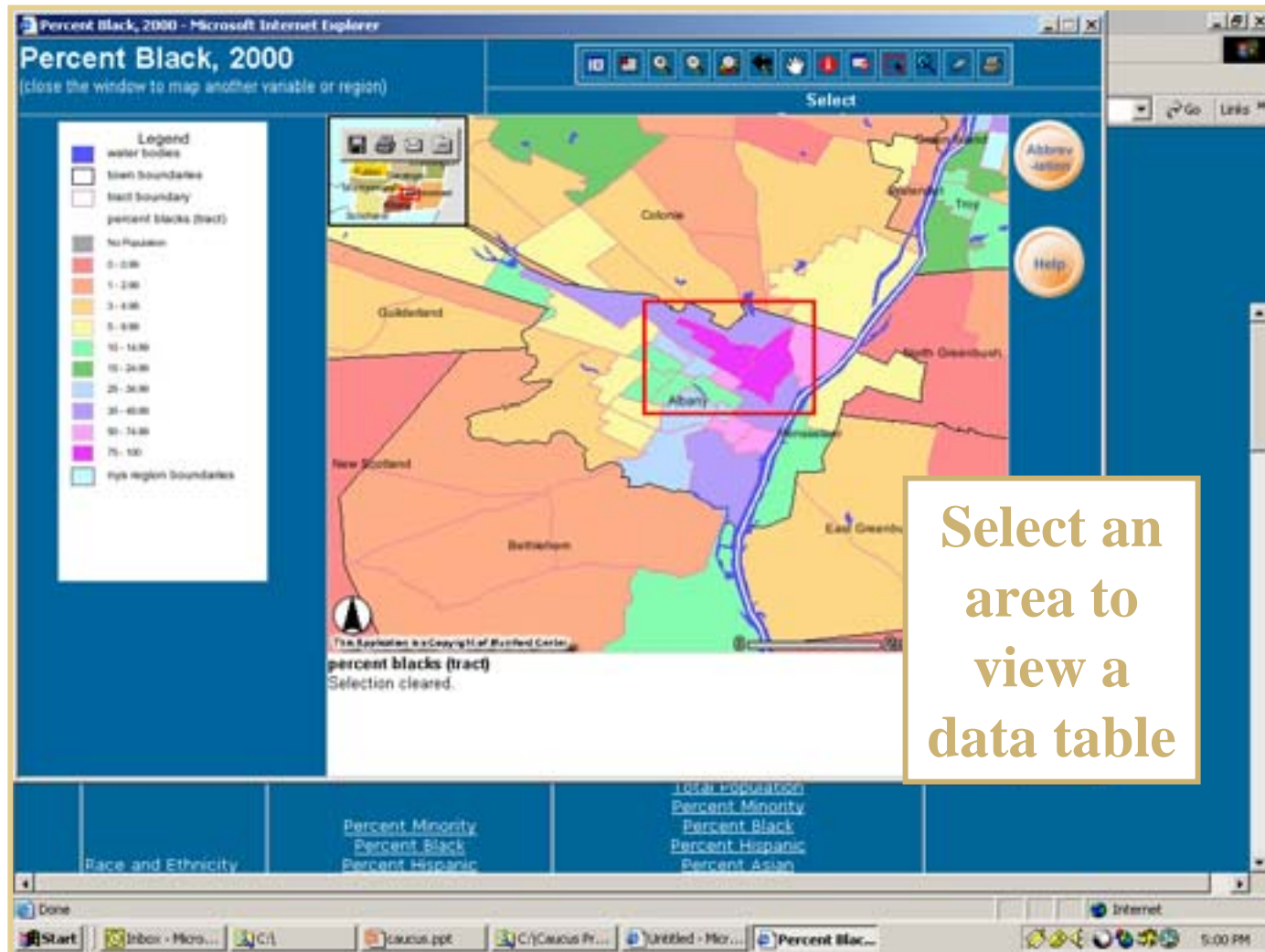


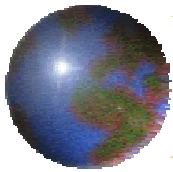
Zoom to Tract Level



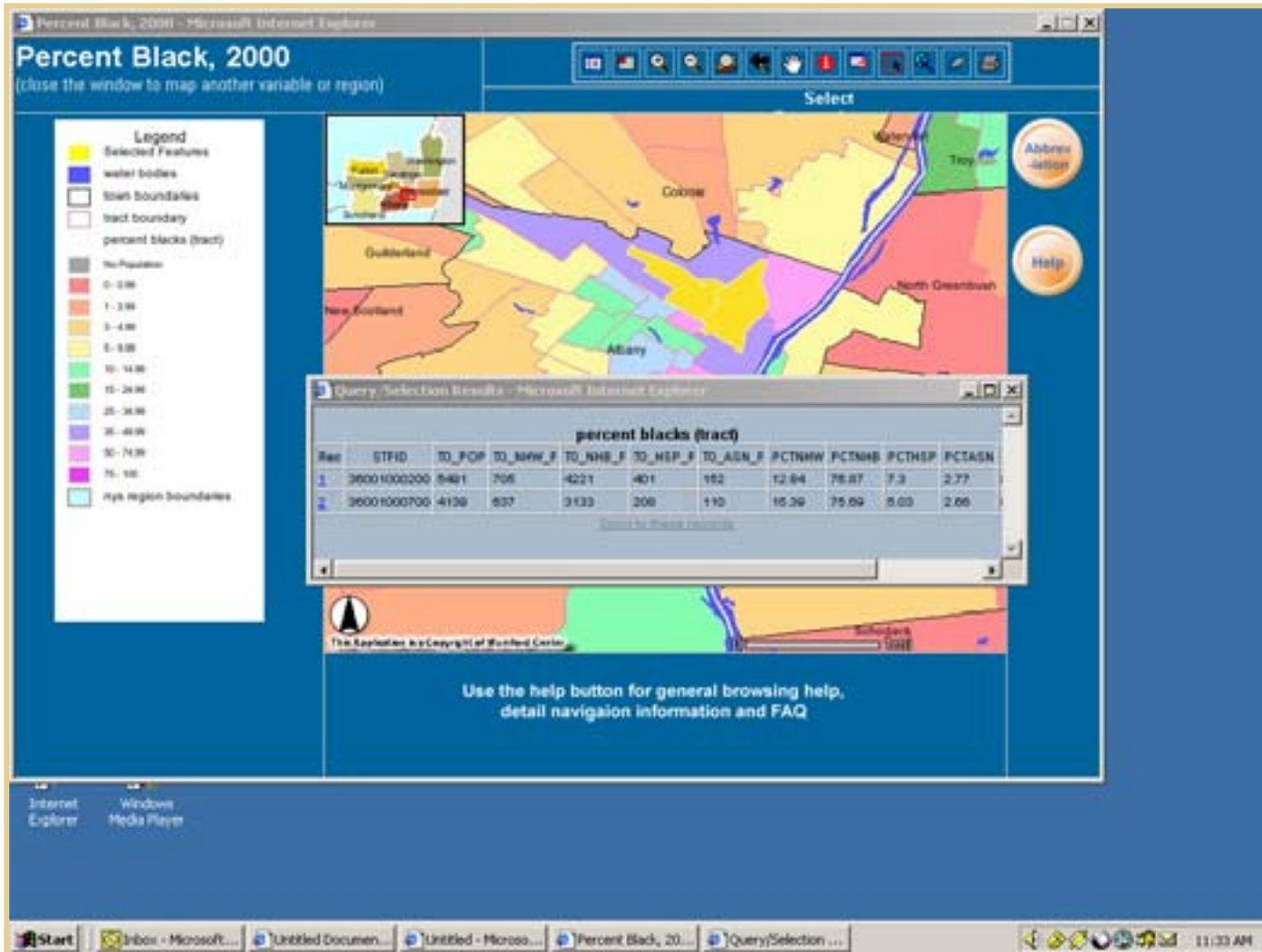


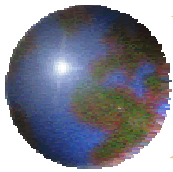
Select and Identify





See the Data





Print the Map

Legend

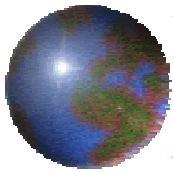
- water bodies
- town boundaries
- tract boundary
- percent blacks (tract)
- No Population
- 0 - 5.00
- 1 - 2.00
- 3 - 4.00
- 5 - 6.00
- 10 - 14.00
- 15 - 24.00
- 25 - 34.00
- 35 - 44.00
- 45 - 54.00
- 55 - 64.00
- 65 - 74.00
- 75 - 100
- city region boundaries

Print Map

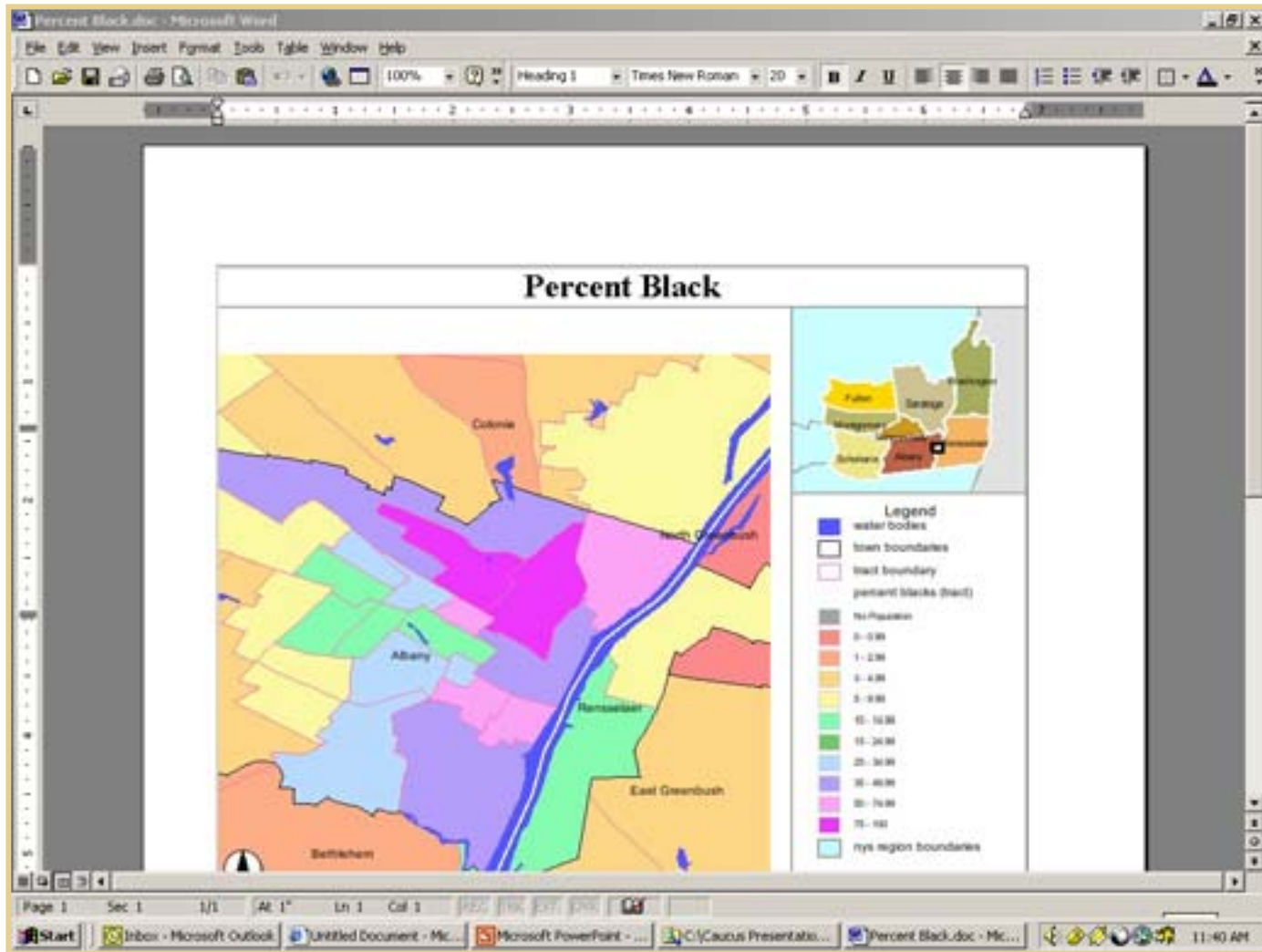
Type the title here:
Percent Black

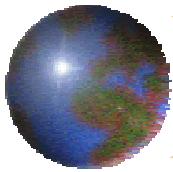
Create Print Page

Click here for Tract data

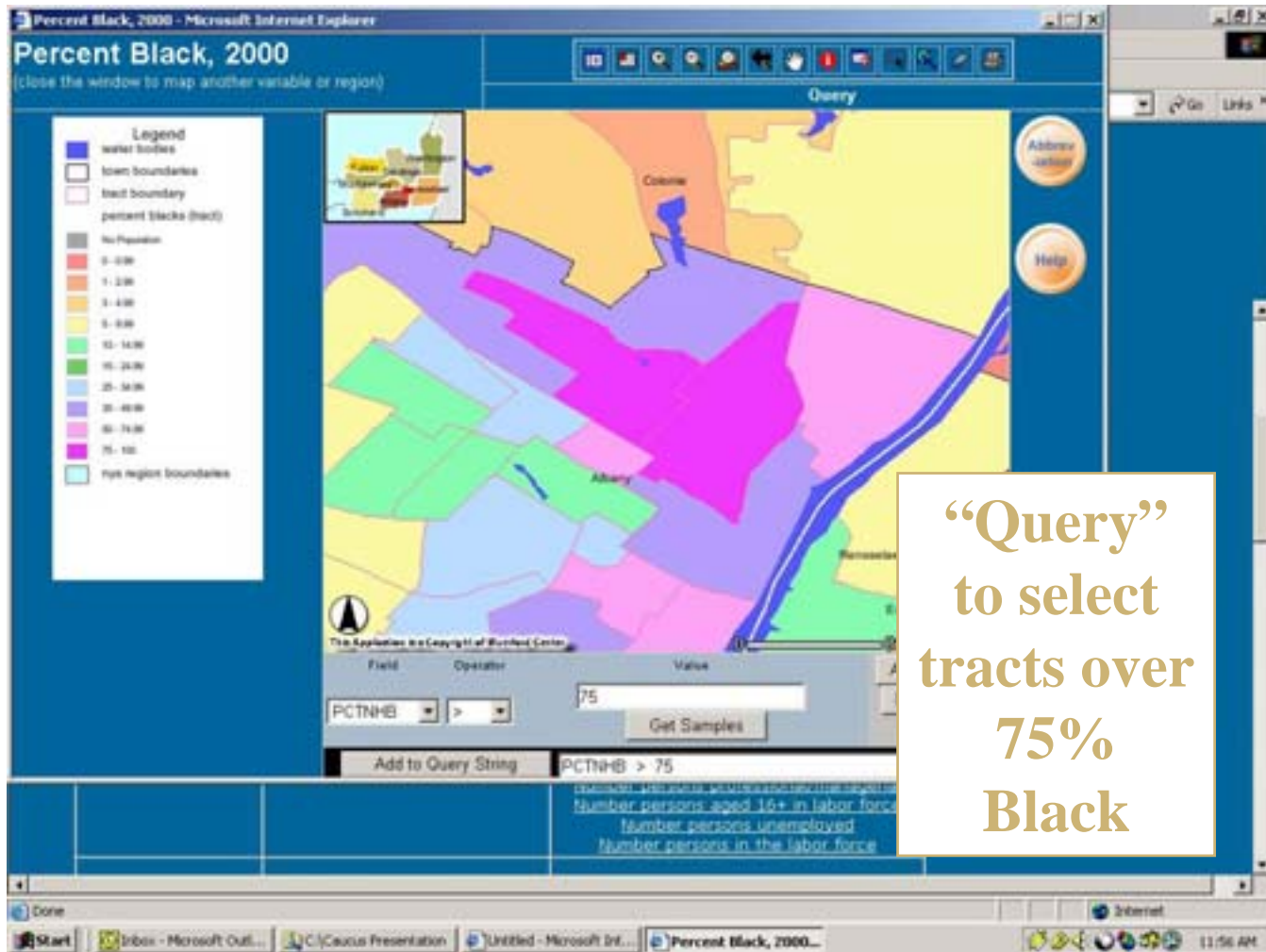


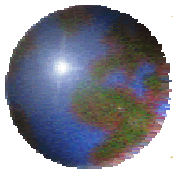
Copy to a Word Document



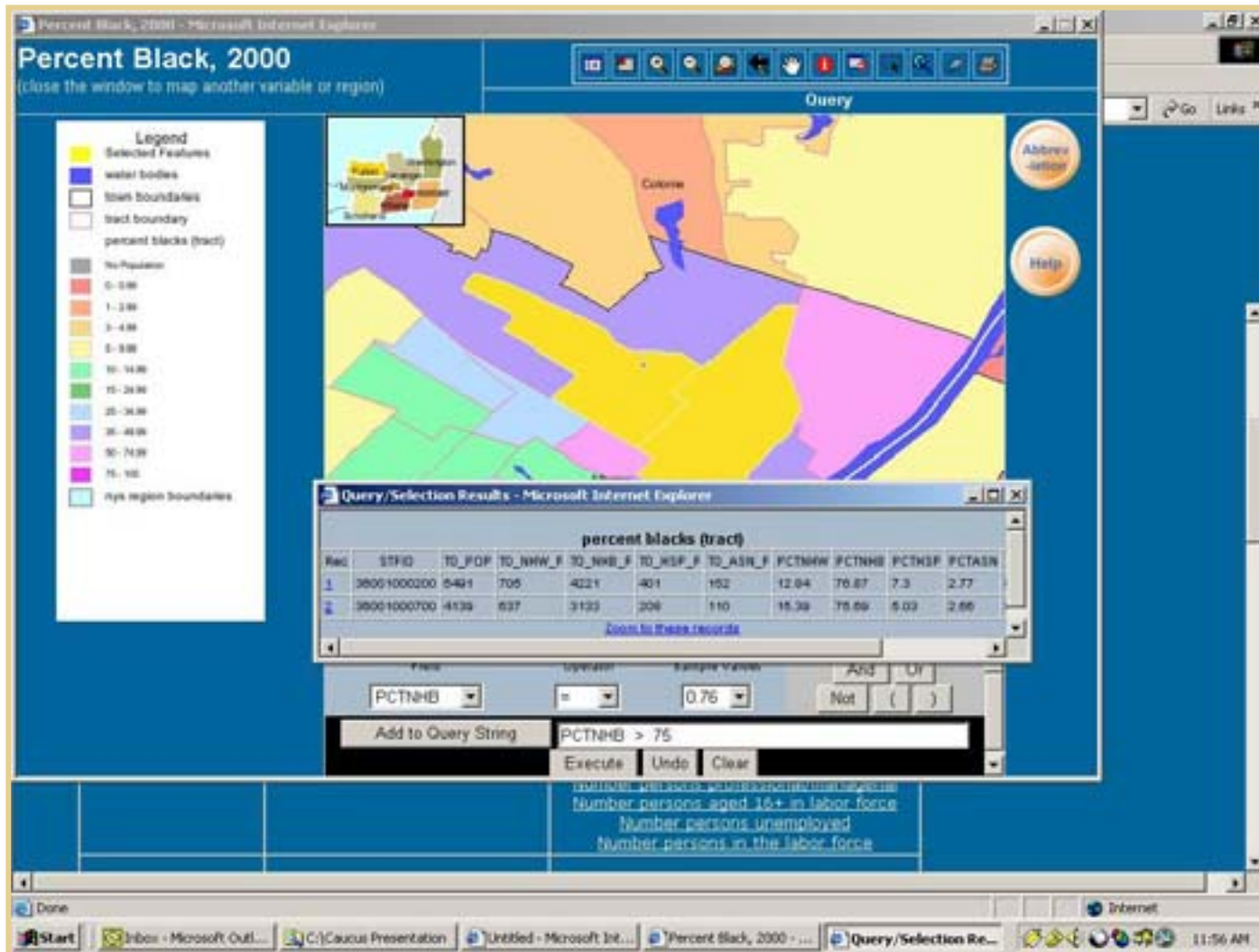


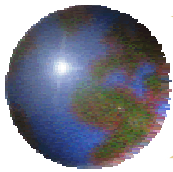
Query the Data



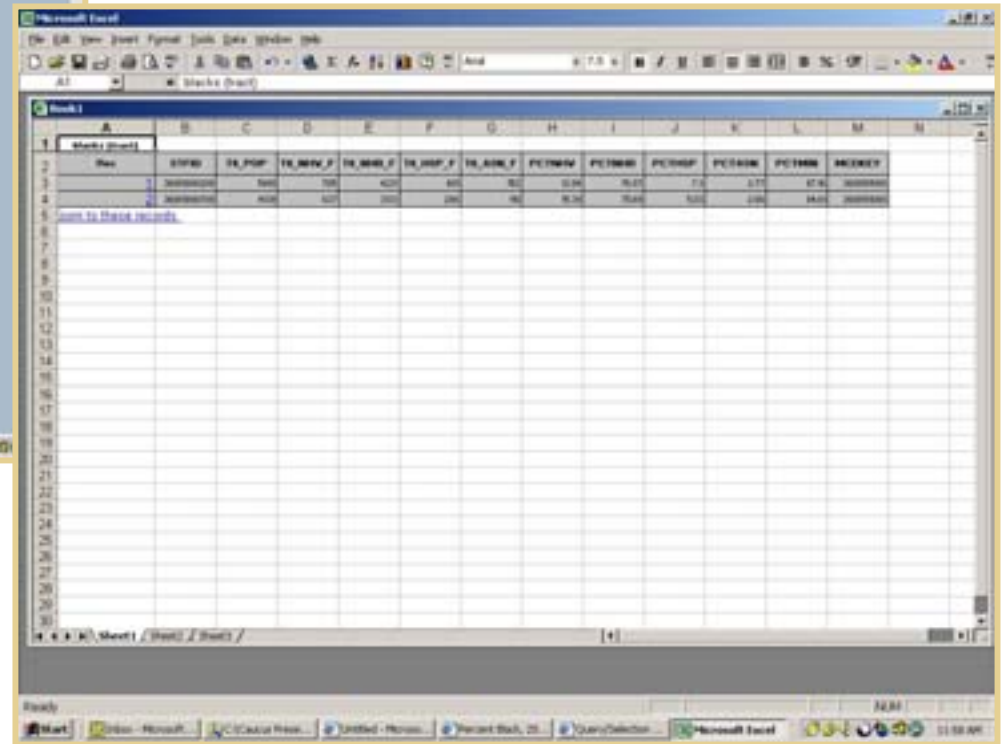
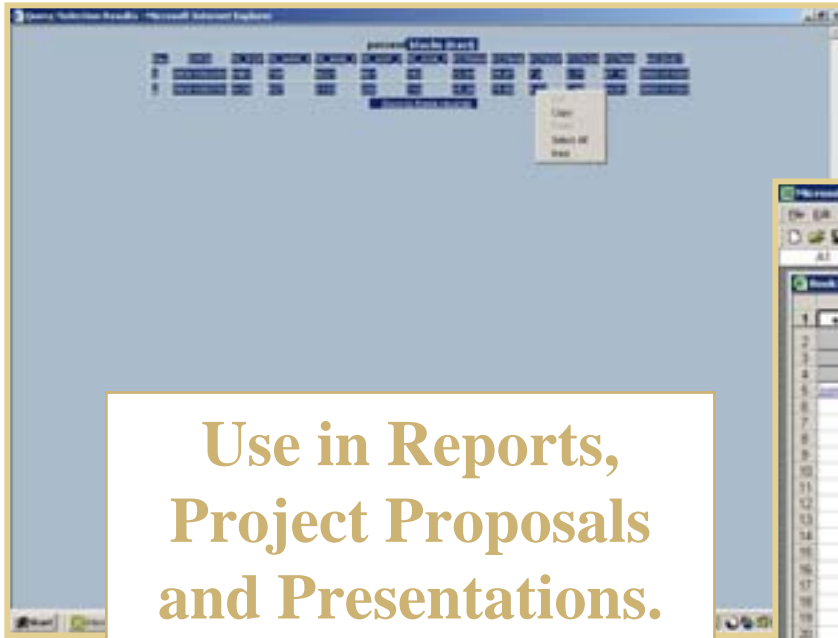


See the Results

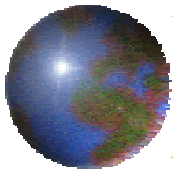




Copy the Data to a Spreadsheet



**Use in Reports,
Project Proposals
and Presentations.**



Download the Data

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MapNY Mapping Counties and Neighborhoods for New York States

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We are currently providing a wide range of data from many sources both at town and tract level, information for the town and tract level indicators draw from a number of sources including the census and reports of state and federal agencies.

To simplify the downloading process, data for all New York State regions are offered as ten separate files:

- Population and Immigration
- Race and Ethnicity
- Economic
- Housing
- Education
- Disability and Veteran Status
- Age and Gender
- Poverty by Race and Age
- Household Composition
- Population Change

[Click here](#) to get the code book for abbreviations

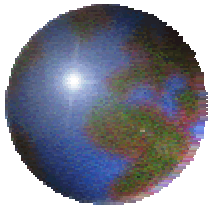
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