# Census Explorer: Young Adults Then and Now
A Tool to Bring ACS and Census Long Form Data to Everyone

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Census Explorer and the ACS and the Census

- Since late 2013 Social Explorer worked with the Census Bureau to develop interactive visualizations using the ACS Available at www.census.gov/censusexplorer

- Worked with Center for New Media and Promotion, Public Affair, ACS Office, Social and Economic, Population, Center for Economic Studies, and Minnesota Population Center, Statistical Standards and others.

- Working with Census Bureau we chose to highlight the changing situation of adults from the Baby Boomer Generation to the Millennials

- Special tabulations done from the ACS 2009-13 and conforming tabs for 1980 through 2000 based on data for 18-34 year old

- https://census.socialexplorer.com/young-adults/#/ (Demo or back up slides)

["

Washington-Arlington-Alexandria

ON ⬤ Compare with United States

←

☰

25%
20%
15%
10%
5%
0%

1980   1990   2000   2009-2013

Never Married, Age 18 to 34
Percent of total population age 18 to 34 who never married

Chart | Table | Map

</>Embed Chart

80%
70%
60%
50%
40%
30%
20%

1980   1990   2000   2009-2013

Bachelor's Degree or Higher, Age 18 to 34
Percent of total population age 18 to 34 years with bachelor's degree or higher

Chart | Table | Map

</>Embed Chart

39%
35%
30%
25%
20%
15%
10%

1980   1990   2000   2009-2013

United States
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👥 White, Non-Hispanic, Age 18 to 34
Percent of total population age 18 to 34 who are non-Hispanic White

| Chart | Table | Map |

</>Embed Chart

81%
70%
60%
50%
40%
30%
20%
10%
0%
1980   1990   2000   2009-2013

👥 Minority, Age 18 to 34
Percent of population age 18 to 34 who reported their ethnicity and race as something other than non-Hispanic White. Please see methodology page for more information.

| Chart | Table | Map |

</>Embed Chart

70%
60%
50%
40%
30%
20%
10%
0%
1980   1990   2000   2009-2013
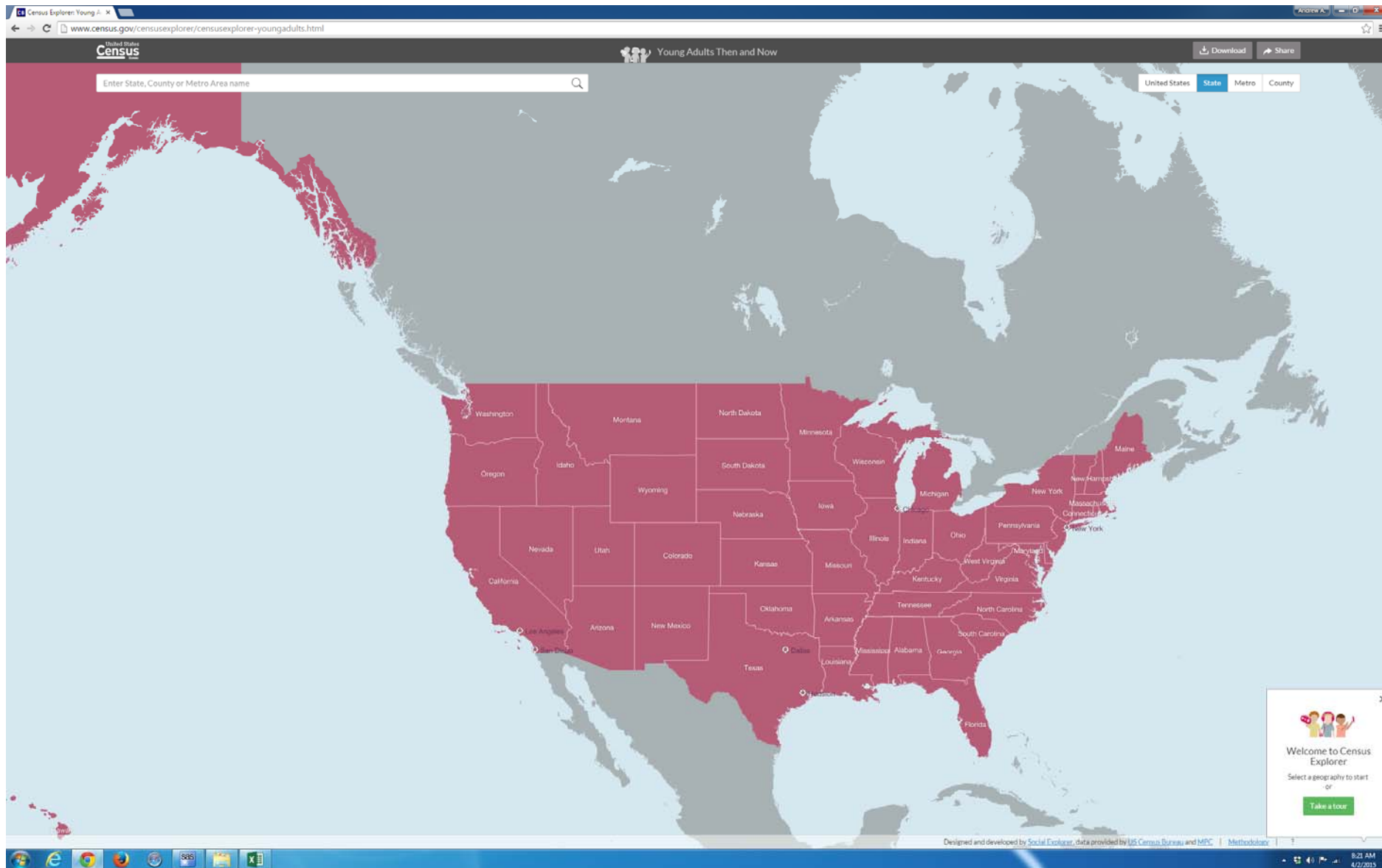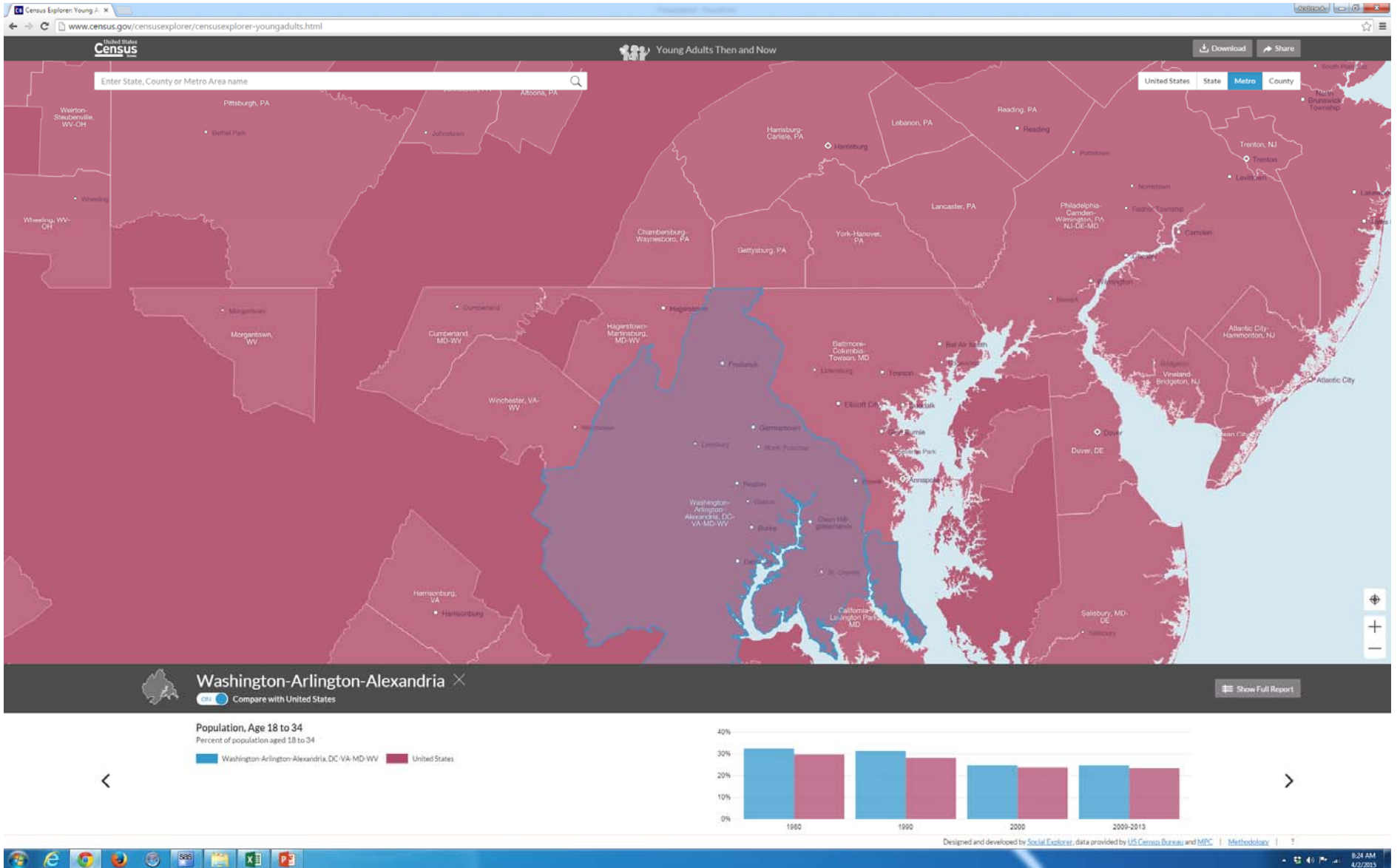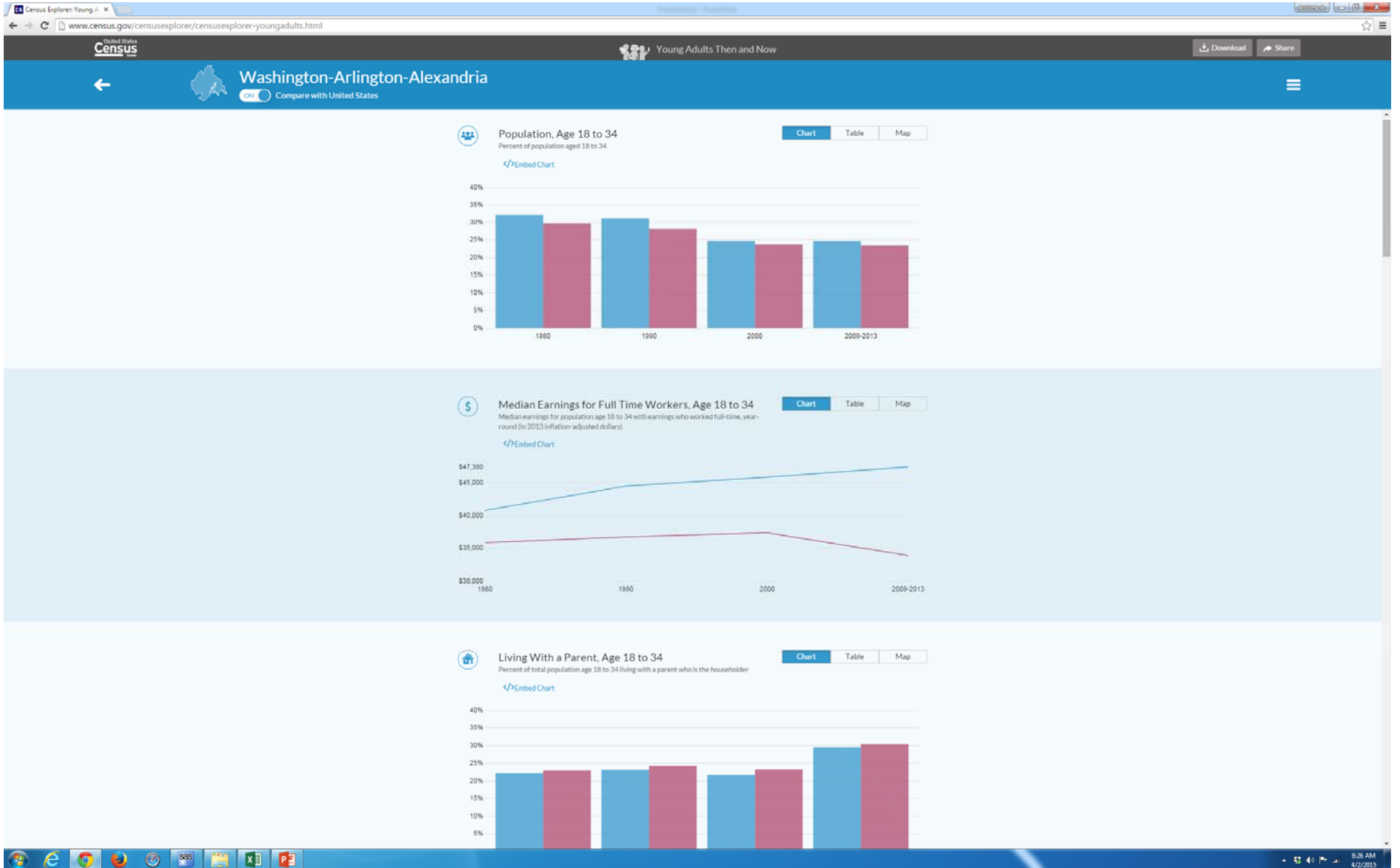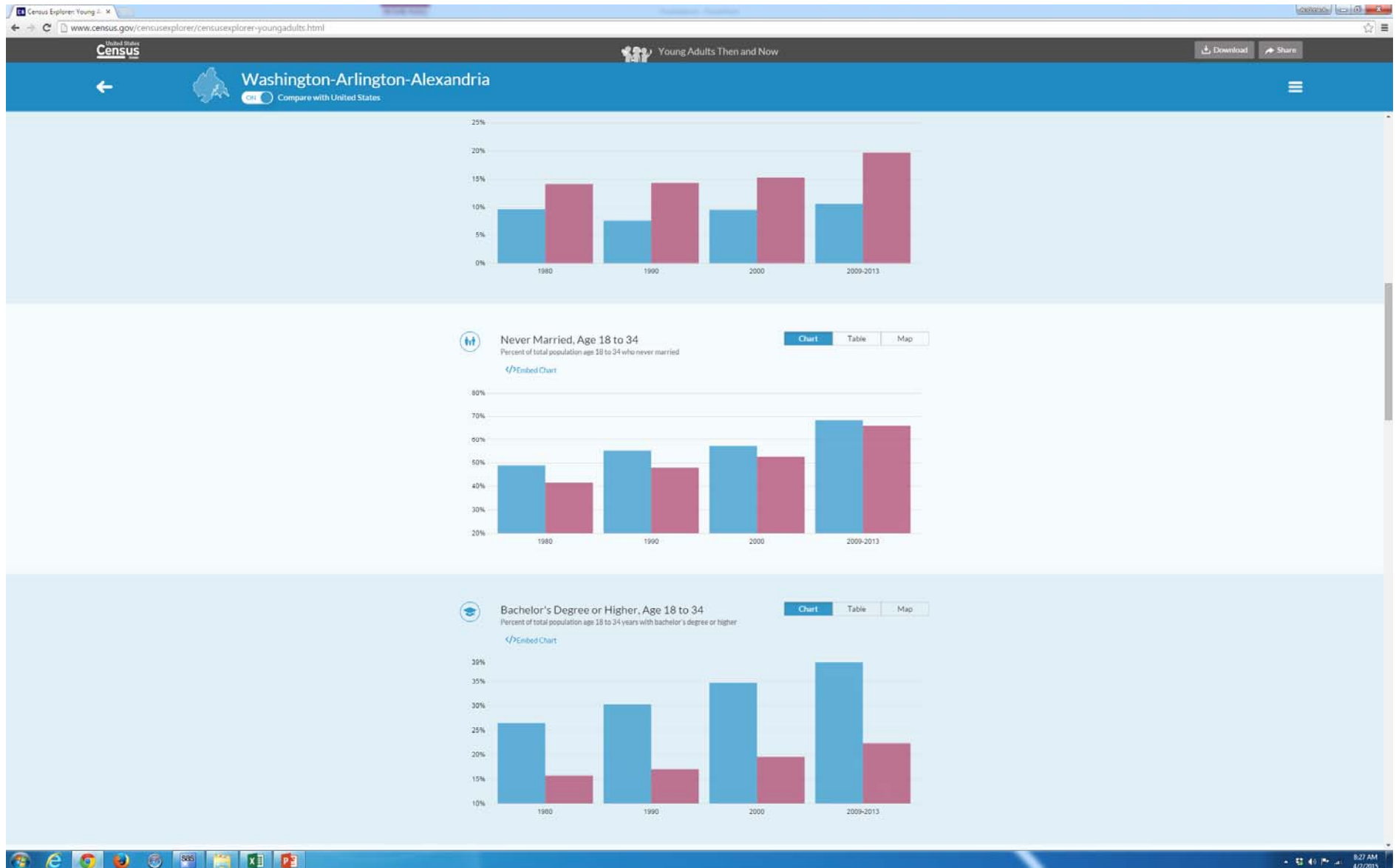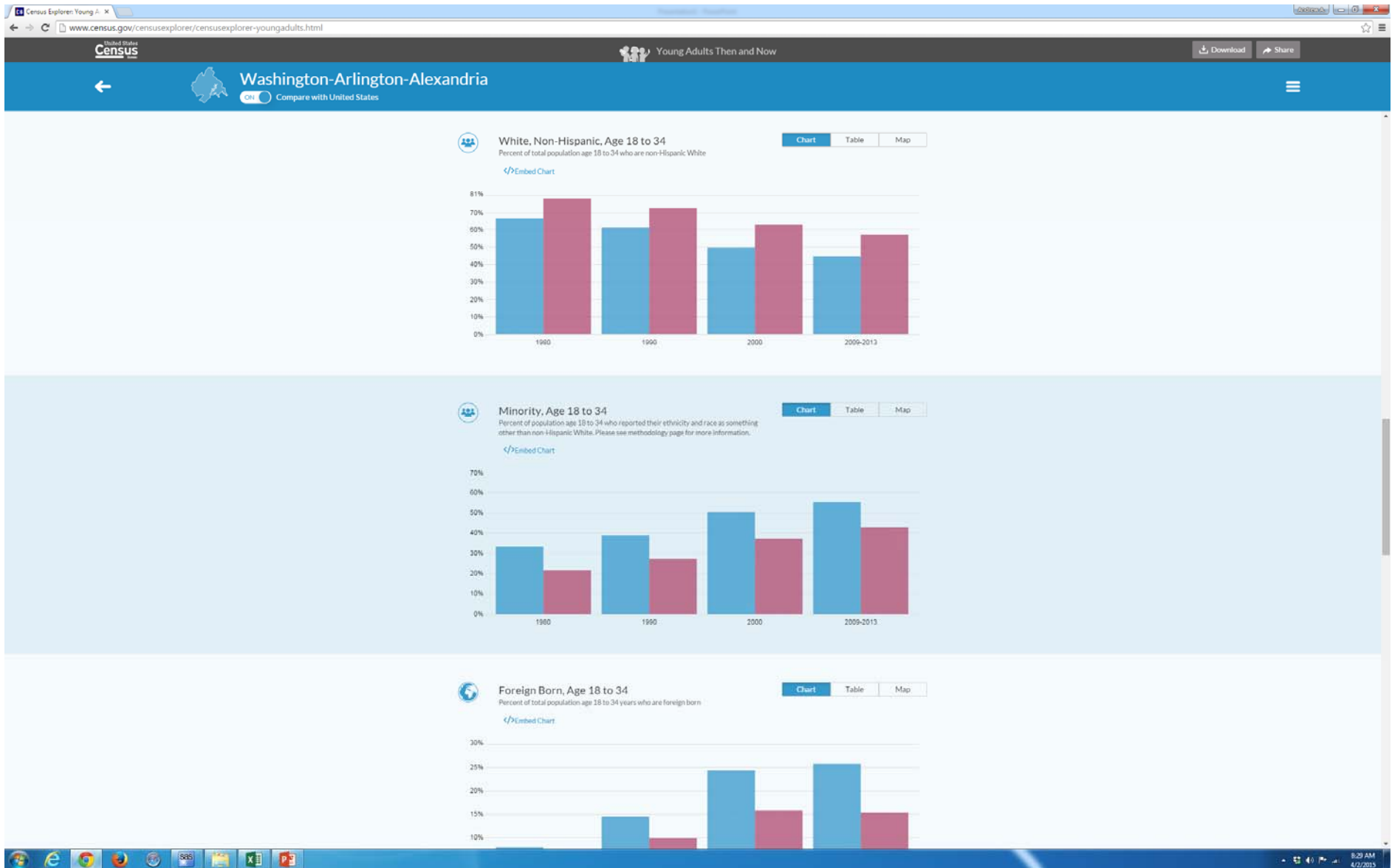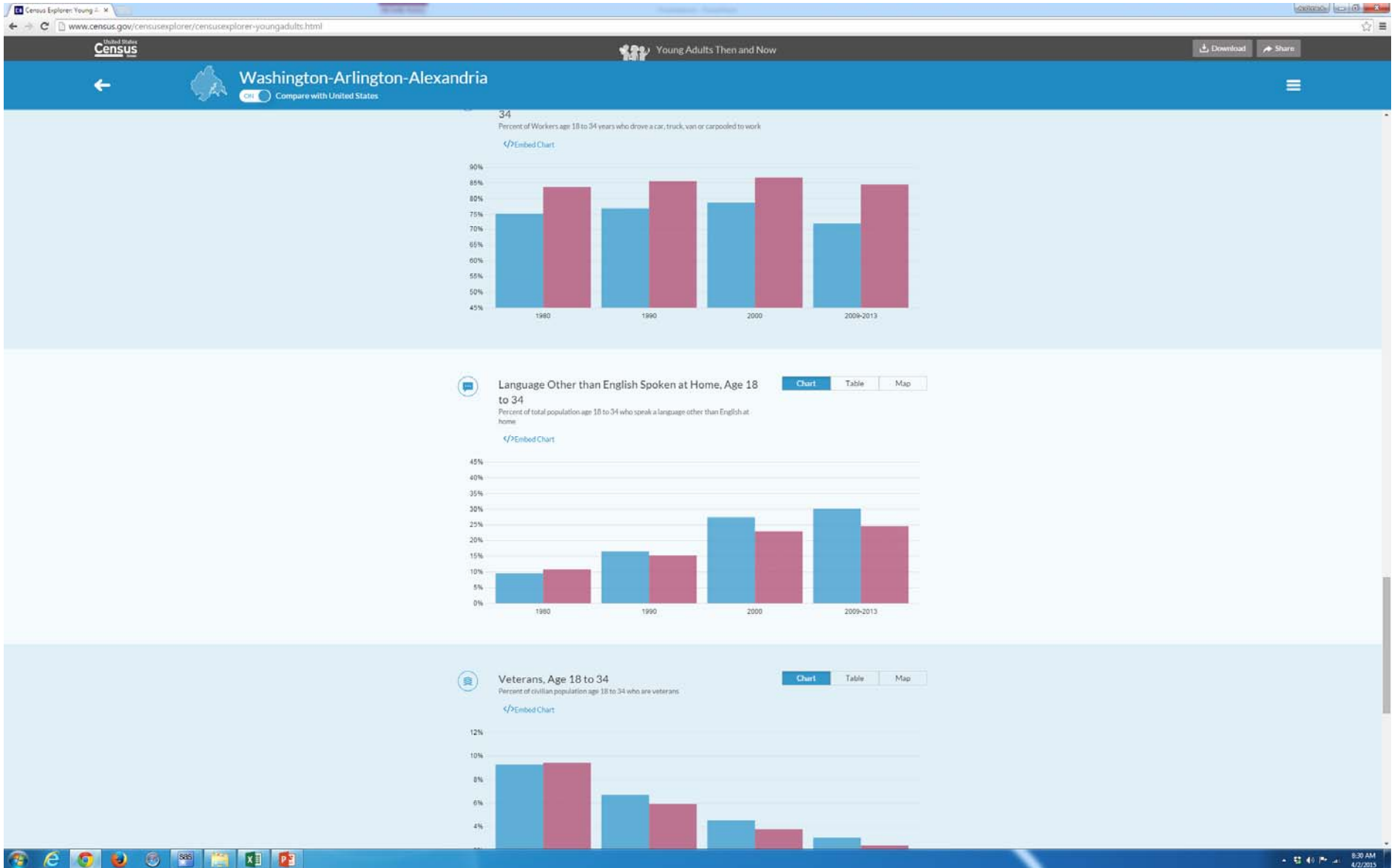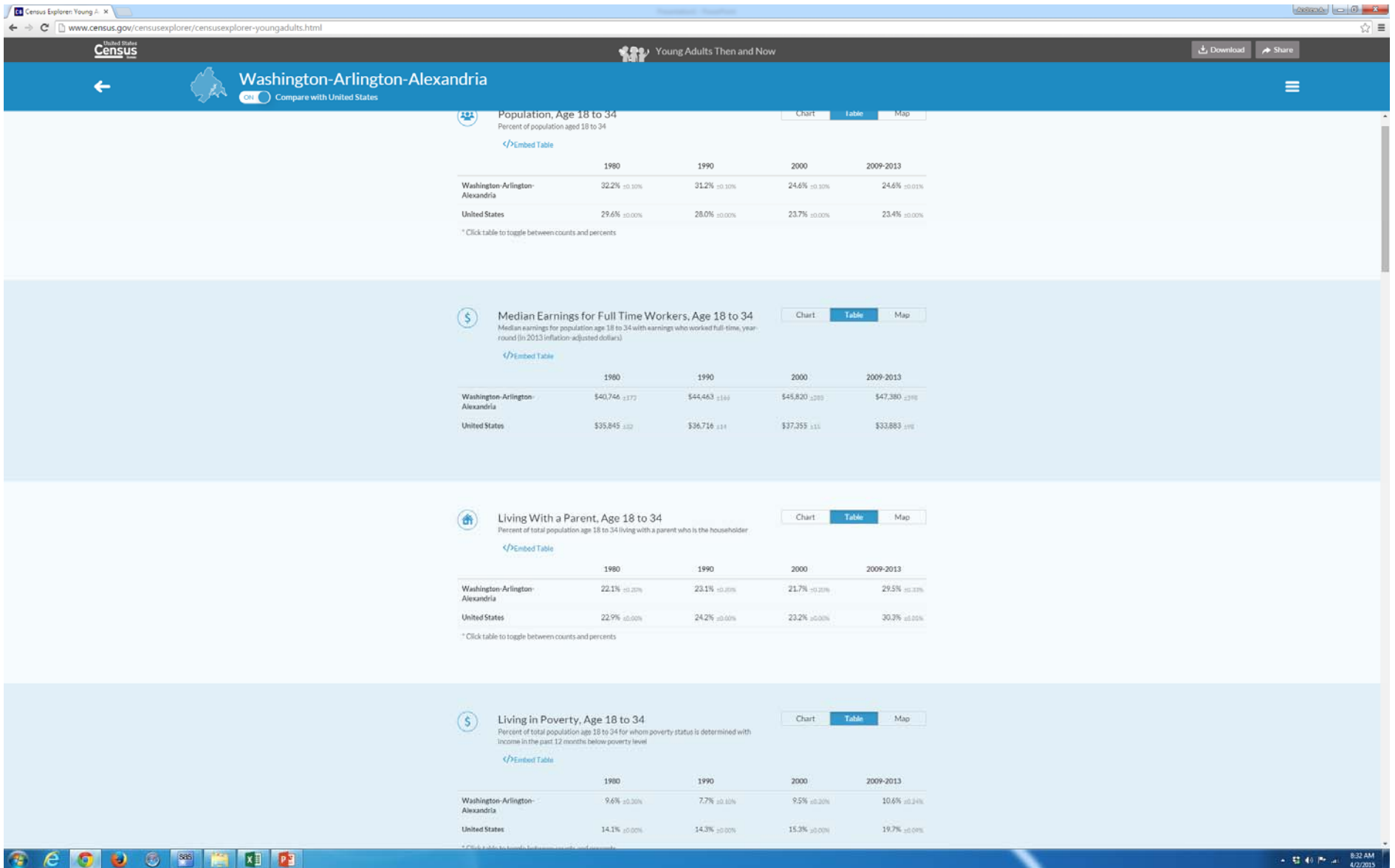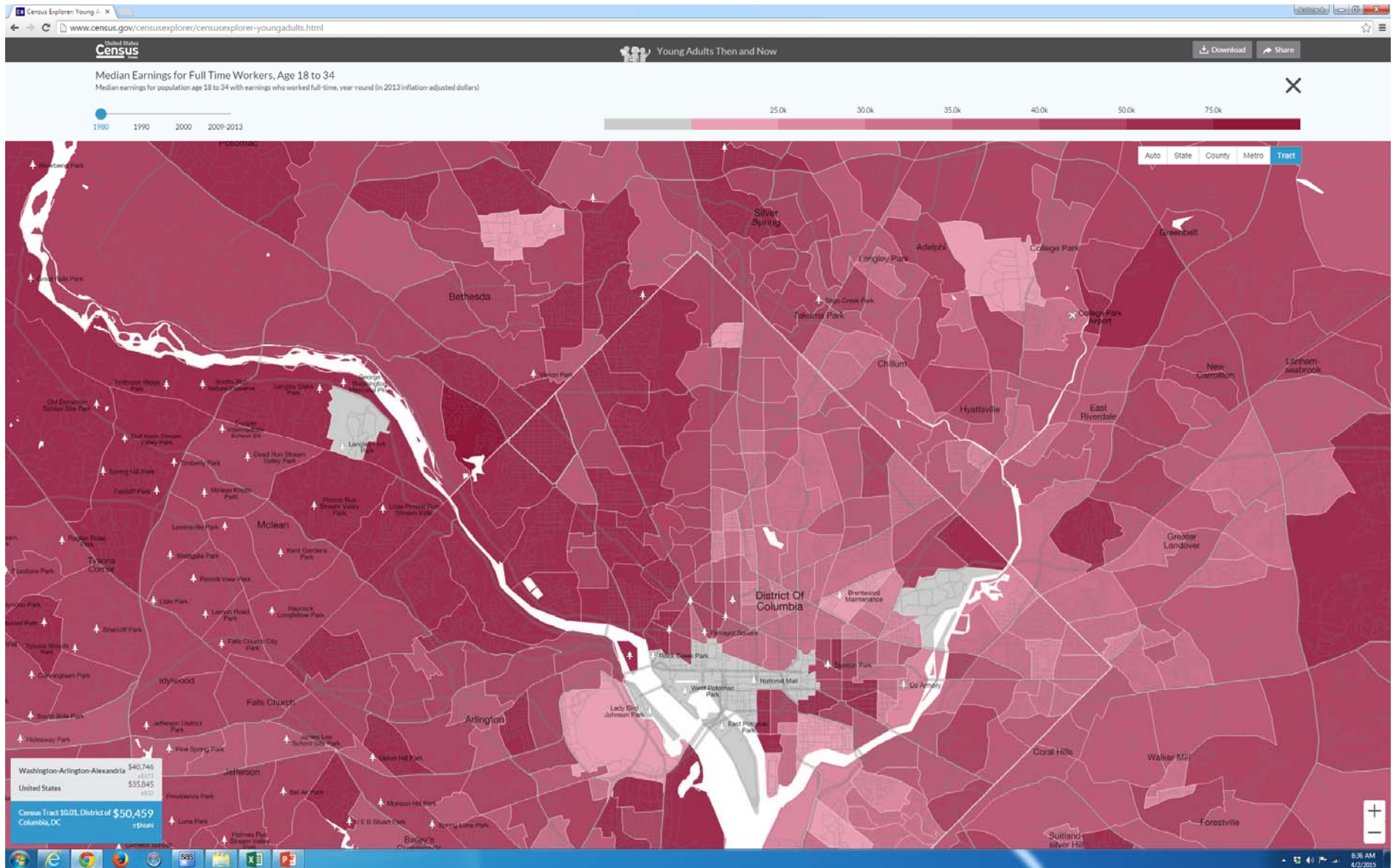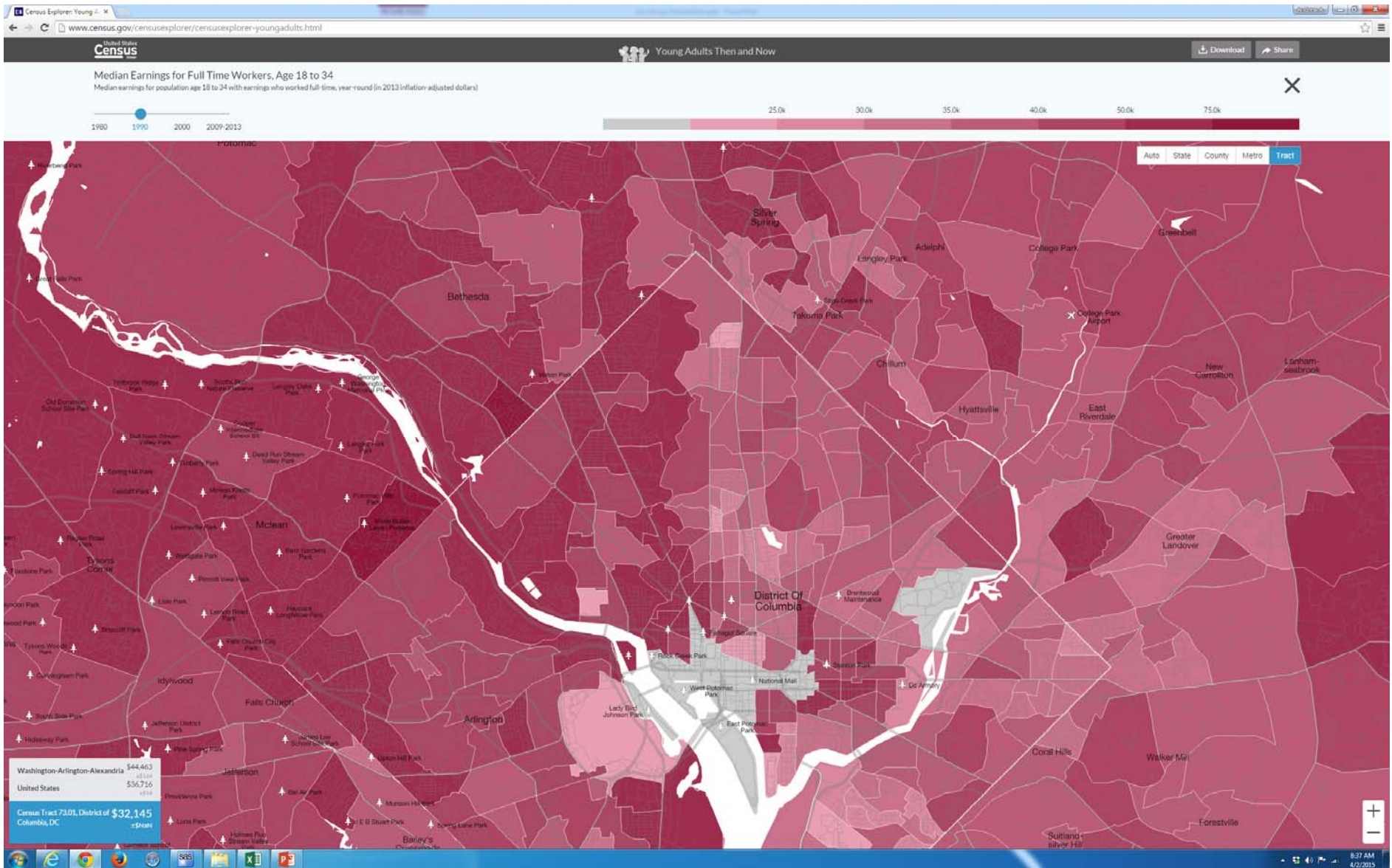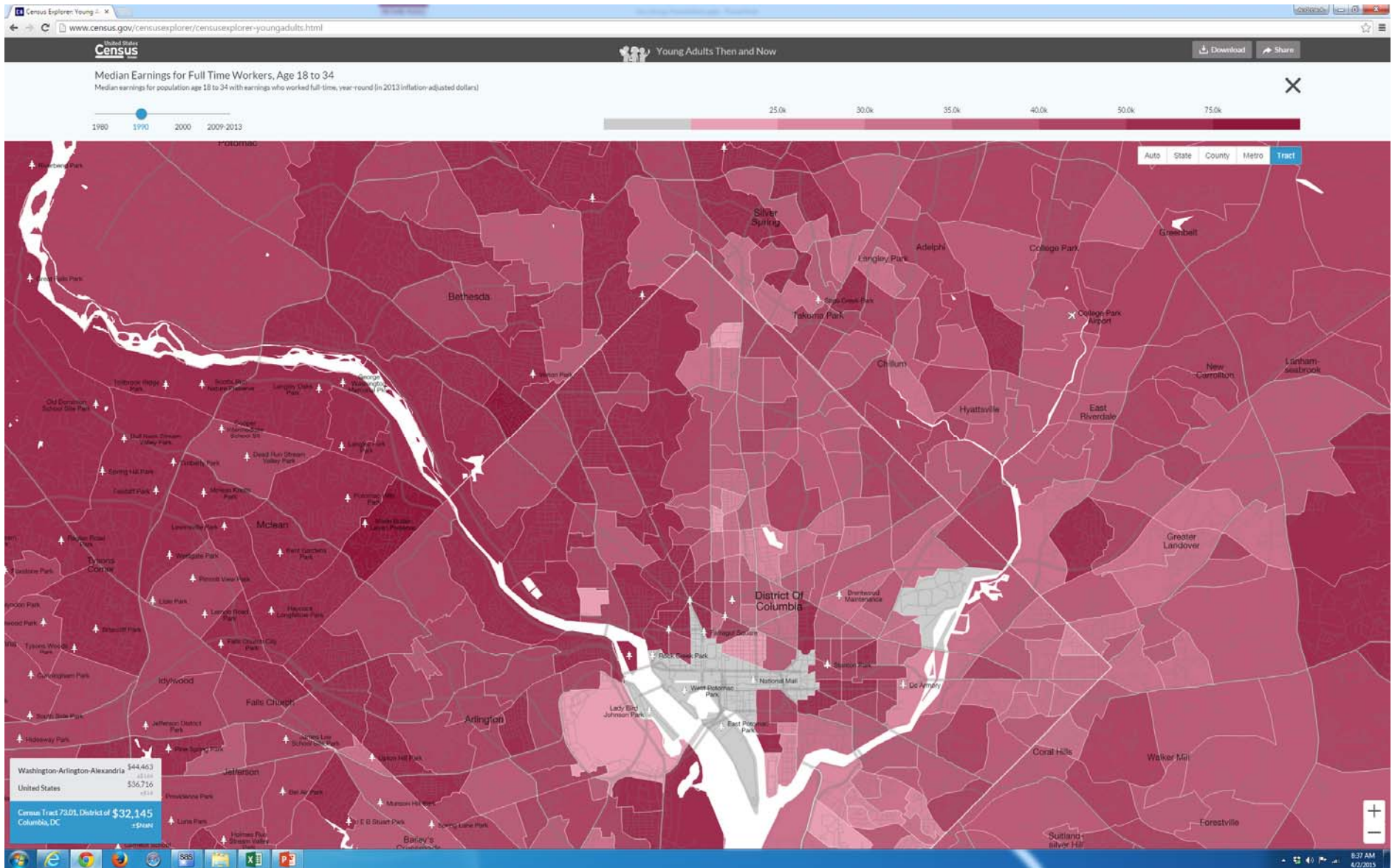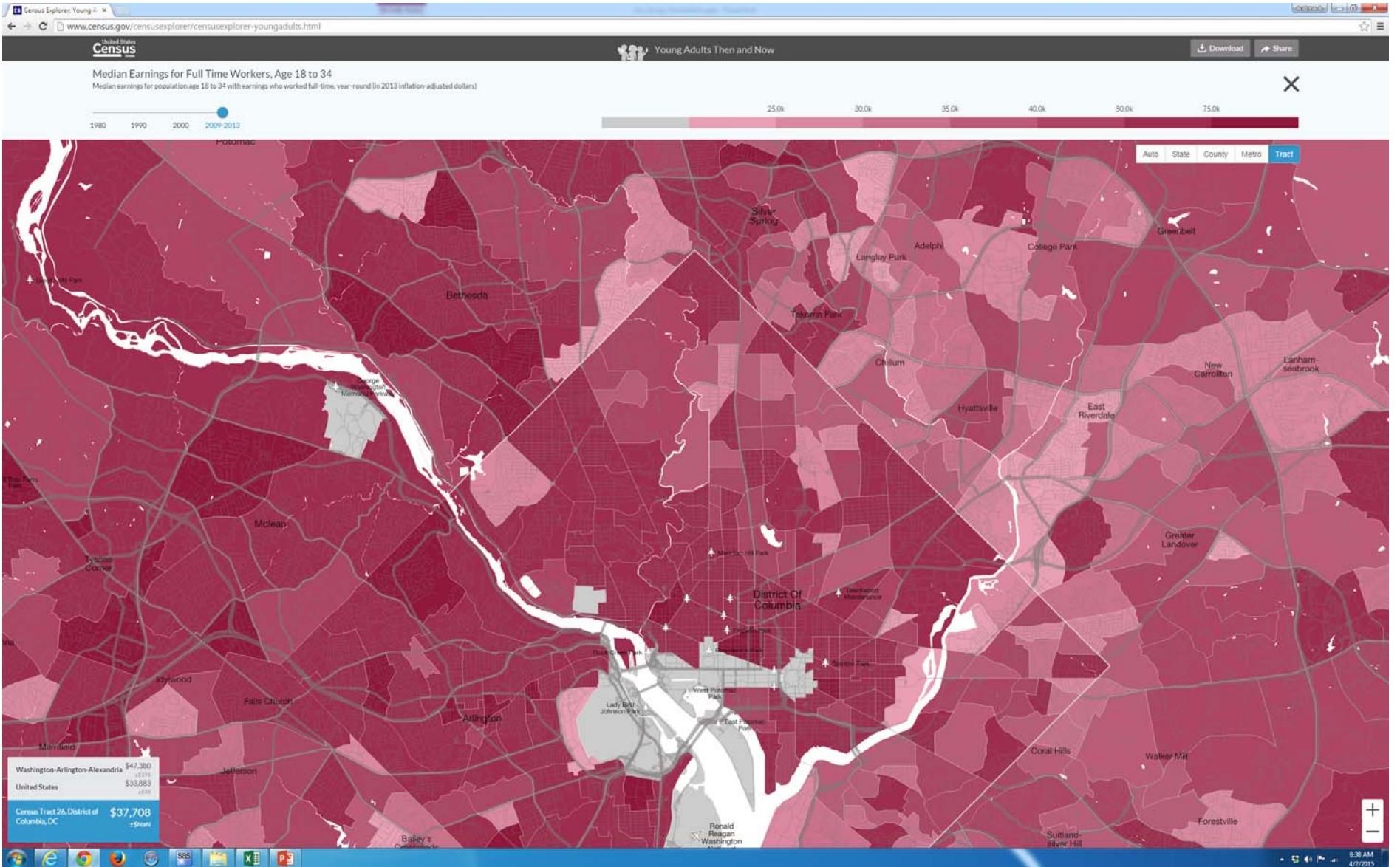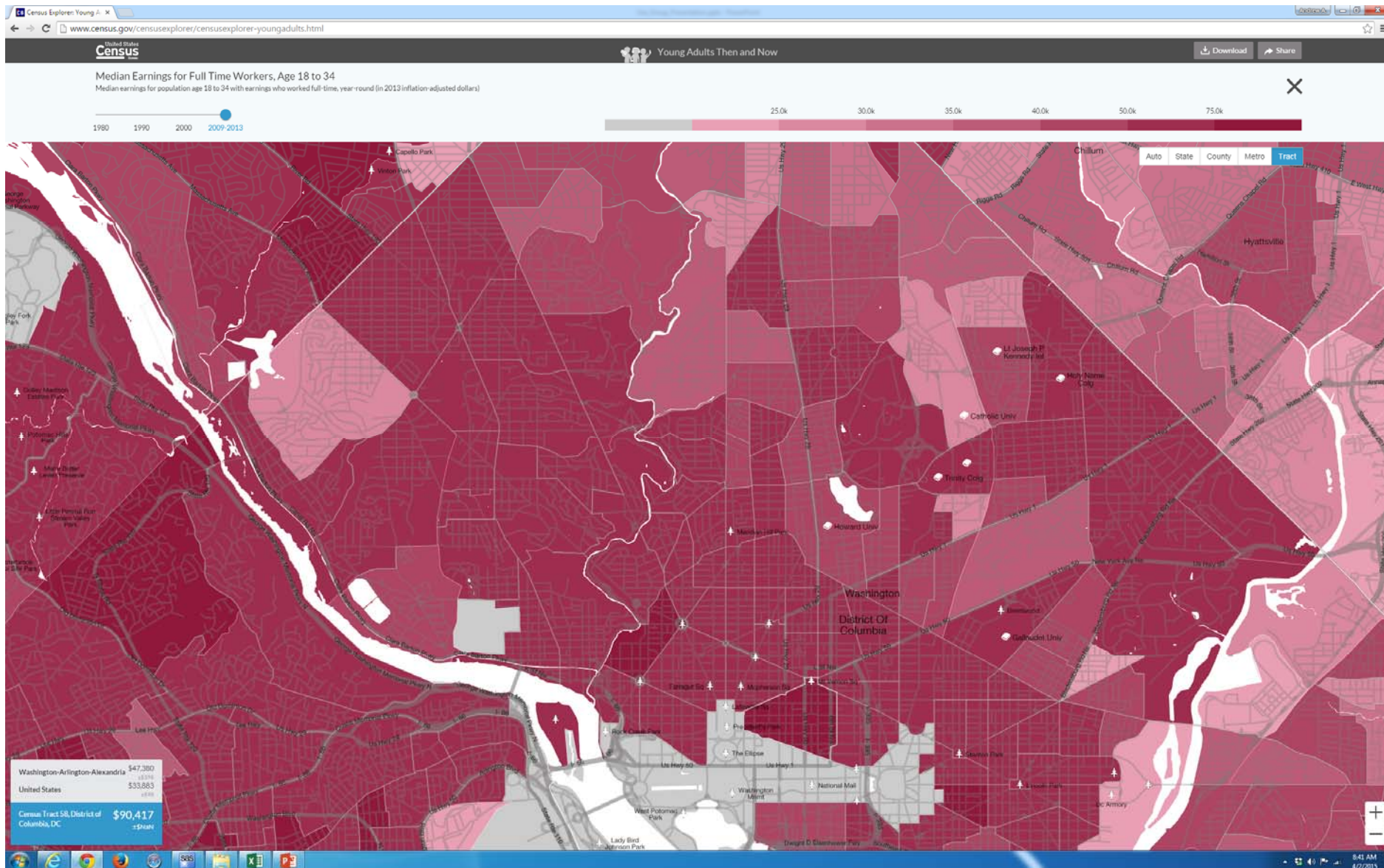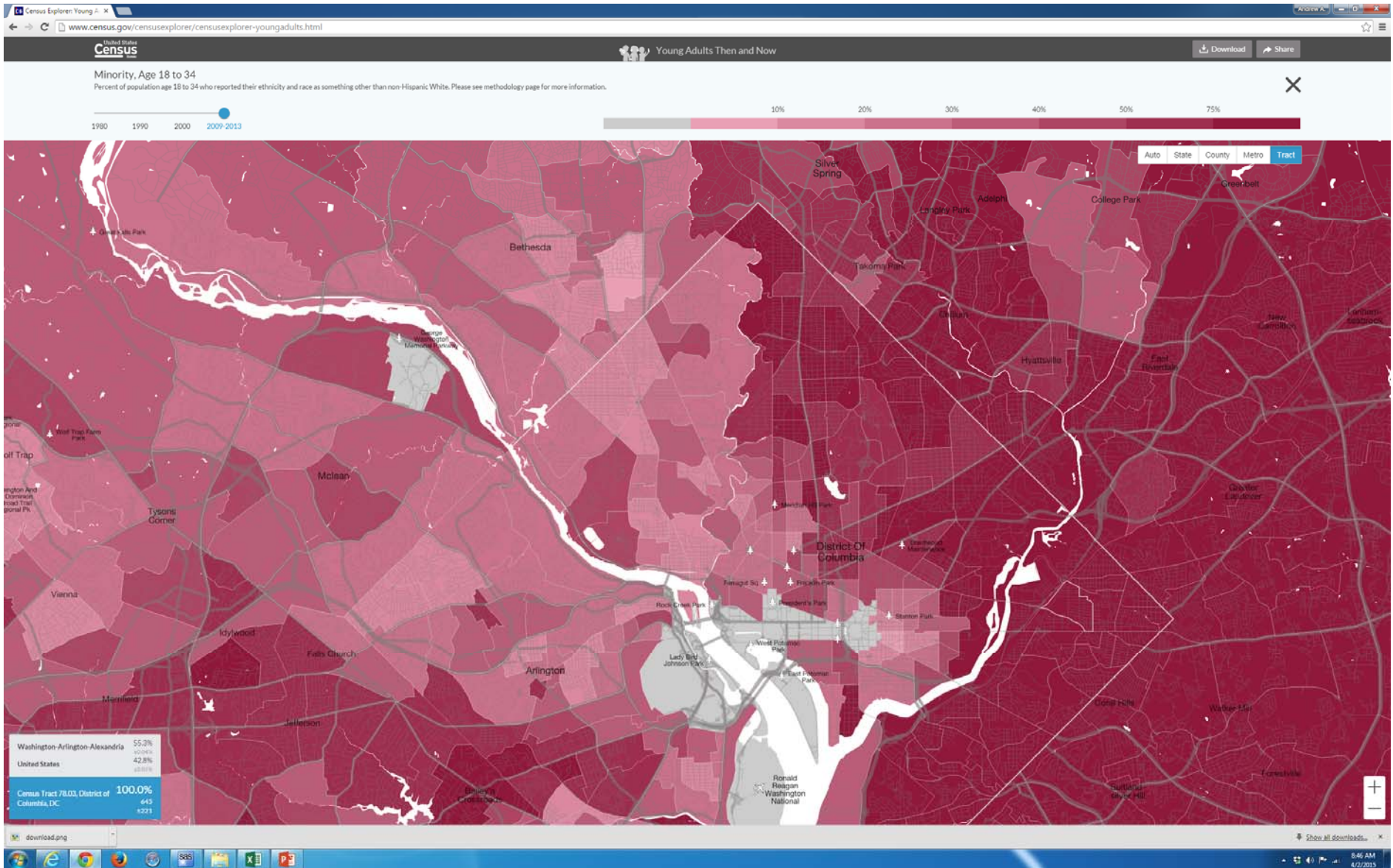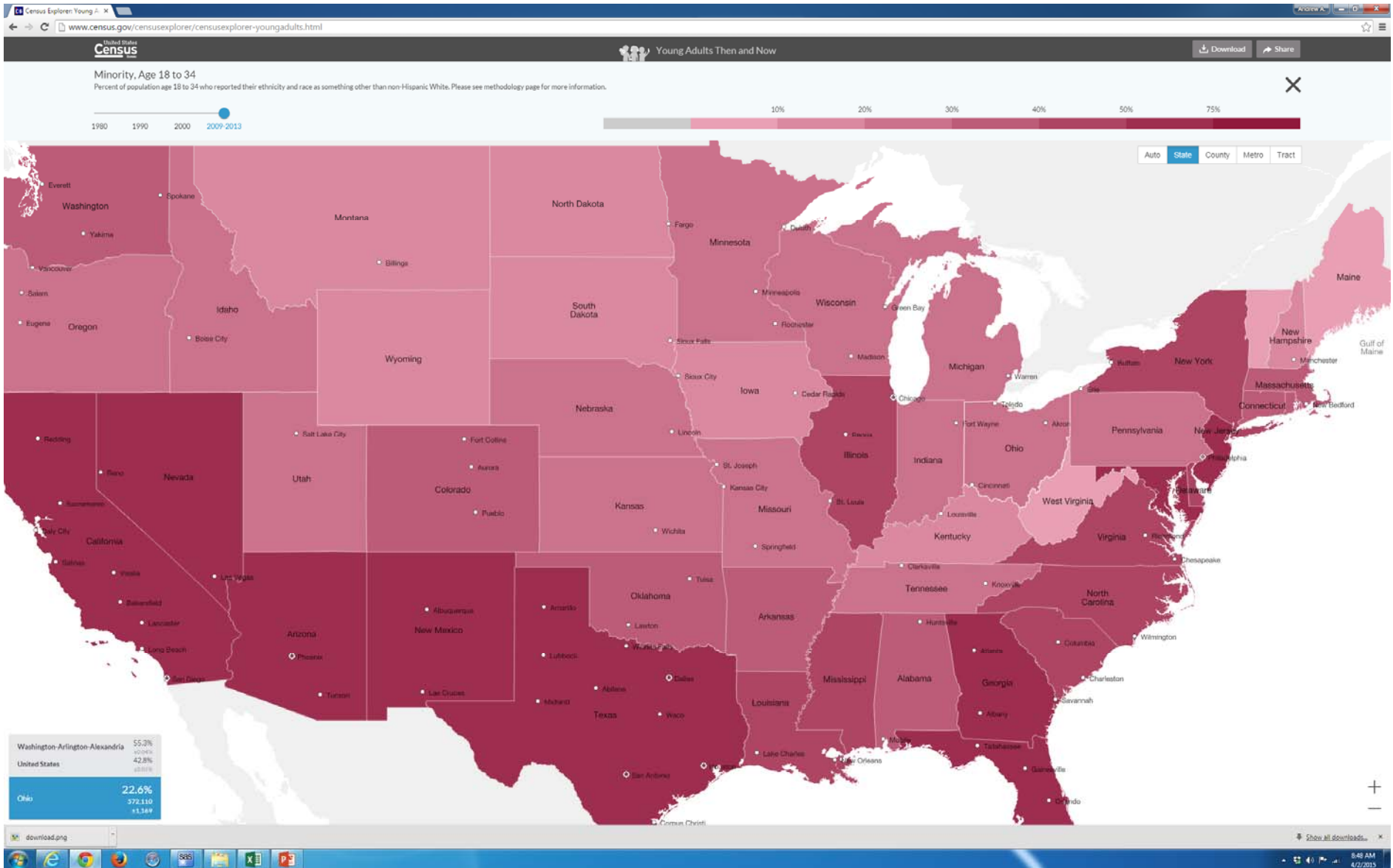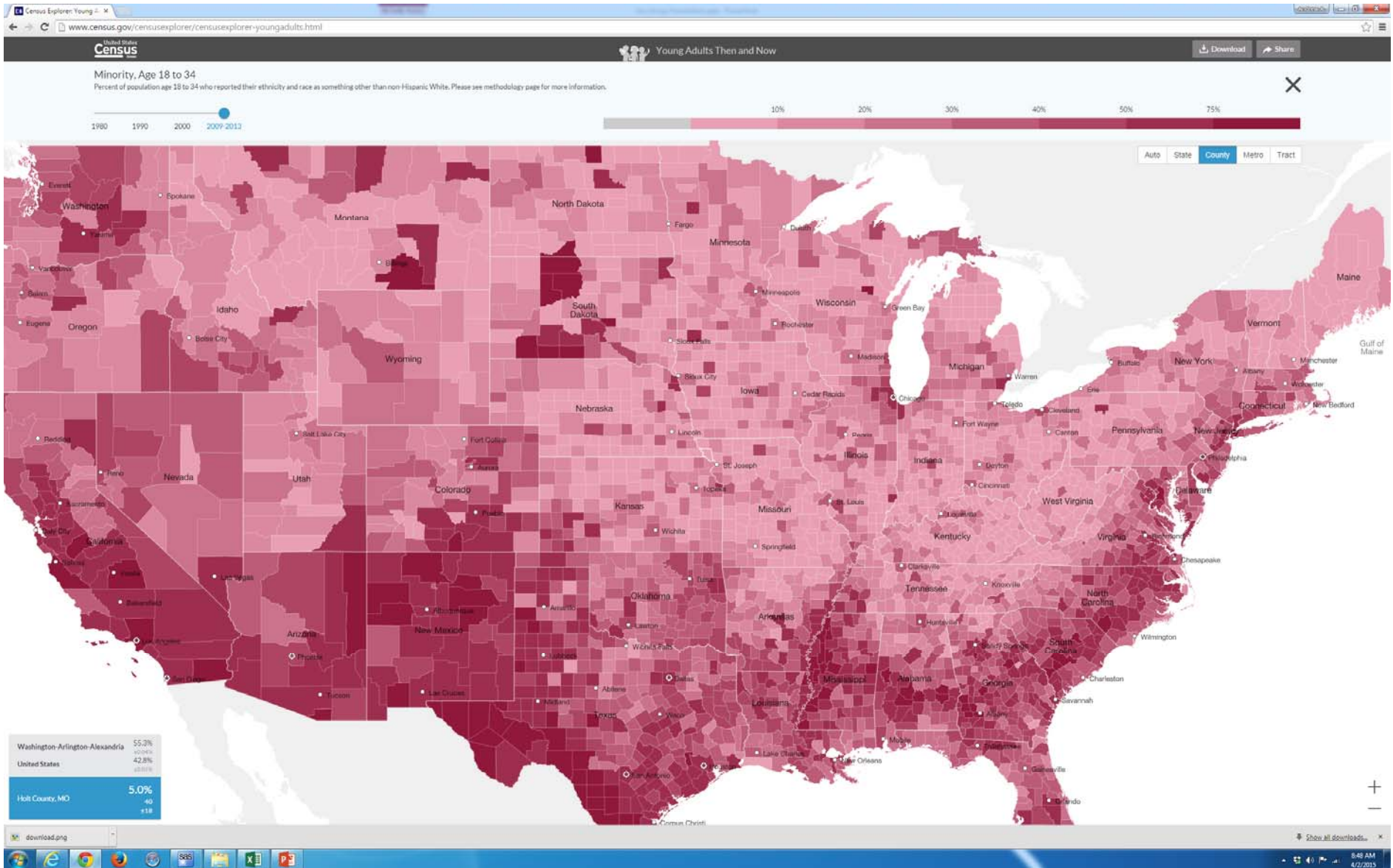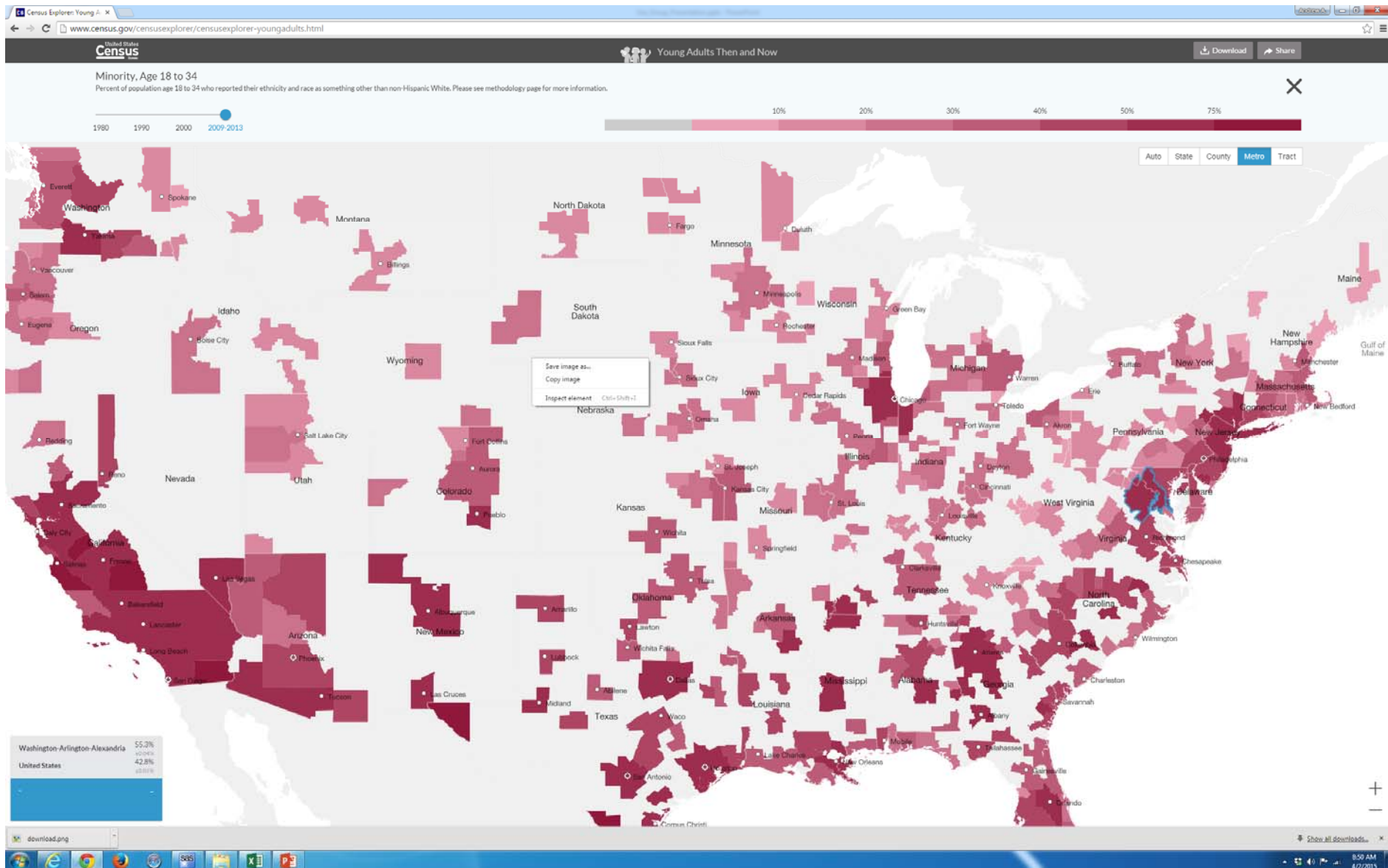
🌐 Foreign Born, Age 18 to 34
Percent of total population age 18 to 34 years who are foreign born

| Chart | Table | Map |

</>Embed Chart

30%
25%
20%
15%
10%

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4/2/2015

Census Explorer: Young A... ×

www.census.gov/censusexplorer/censusexplorer-youngadults.html

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34

Percent of Workers age 18 to 34 years who drove a car, truck, van or carpooled to work

</>Embed Chart

90%
85%
80%
75%
70%
65%
60%
55%
50%
45%

1980   1990   2000   2009-2013

Language Other than English Spoken at Home, Age 18 to 34

Chart   Table   Map

Percent of total population age 18 to 34 who speak a language other than English at home

</>Embed Chart

45%
40%
35%
30%
25%
20%
15%
10%
5%
0%

1980   1990   2000   2009-2013

Veterans, Age 18 to 34

Chart   Table   Map

Percent of civilian population age 18 to 34 who are veterans

</>Embed Chart

12%
10%
8%
6%
4%

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👥 Population, Age 18 to 34   Chart **Table** Map
Percent of population aged 18 to 34

</>Embed Table

	1980	1990	2000	2009-2013
Washington-Arlington-Alexandria	32.2% ±0.10%	31.2% ±0.10%	24.6% ±0.10%	24.6% ±0.01%
United States	29.6% ±0.00%	28.0% ±0.00%	23.7% ±0.00%	23.4% ±0.00%

* Click table to toggle between counts and percents

$ Median Earnings for Full Time Workers, Age 18 to 34   Chart **Table** Map
Median earnings for population age 18 to 34 with earnings who worked full-time, year-round (in 2013 inflation-adjusted dollars)

</>Embed Table

	1980	1990	2000	2009-2013
Washington-Arlington-Alexandria	$40,746 ±173	$44,463 ±144	$45,820 ±285	$47,380 ±398
United States	$35,845 ±32	$36,716 ±14	$37,355 ±11	$33,883 ±98

🏠 Living With a Parent, Age 18 to 34   Chart **Table** Map
Percent of total population age 18 to 34 living with a parent who is the householder

</>Embed Table

	1980	1990	2000	2009-2013
Washington-Arlington-Alexandria	22.1% ±0.20%	23.1% ±0.20%	21.7% ±0.20%	29.5% ±0.33%
United States	22.9% ±0.00%	24.2% ±0.00%	23.2% ±0.00%	30.3% ±0.05%

* Click table to toggle between counts and percents

$ Living in Poverty, Age 18 to 34   Chart **Table** Map
Percent of total population age 18 to 34 for whom poverty status is determined with income in the past 12 months below poverty level

</>Embed Table

	1980	1990	2000	2009-2013
Washington-Arlington-Alexandria	9.6% ±0.30%	7.7% ±0.10%	9.5% ±0.20%	10.6% ±0.24%
United States	14.1% ±0.00%	14.3% ±0.00%	15.3% ±0.00%	19.7% ±0.00%

* Click table to toggle between counts and percents

Design Features and Data for Young Adults

- Data Design and Tool Design were integrated
- Objective was to show changing status of Young Adults over the decades and be able to compare status from place to place, at the US, State, Metro, County and tract level
- Use of integrated tables, charts, graphs and maps
- Data downloads were supported. So data would be quickly available not through American Fact Finder
- Embedding and sharing for Social Media, Email and the like was supported

Data Details

- ACS Office agreed to do tabulations especially relevant to the topic for the 2009-2013 ACS

- Center for Economic Studies (CES) and the Minnesota Population Center (MPC) agreed to tabulate data from 1980, 1990, and 2000 Census to conform to 2009-2013 tabulations (tabulations were confirmed to agree)

- Tract boundaries were used for 1990, 2000 Census and 2009-2013 ACS; Tract and BNA boundaries were used for 1980

- Current metropolitan boundaries were used

- Adjustment for inflation were made

- All data regardless of population were displayed in the mapping tool

- Only comparisons based upon at least 20,000 in each year were displayed

- Margins of error were computed and available for all data

Technology

- Maps were rendered client side using vector tiles

- Maps and data were stored in a distributed data base using the Amazon Cloud

- All rendering was done using HTML5, so Young Adults Then and Now runs seamlessly on desktops, laptops, large tablets, small tablets and smart phones that accommodate HTML5 (no app required)

- Technology allows accommodation of large number of simultaneous users

- Allows exploration of large amounts of data and geographies at different scales

- Census Explorer technology built upon Social Explorer, which includes virtually all available ACS and Census survey data, plus maps from 1790 to the present

The Other Census Explorer Editions

- Population Estimates Edition—Uses the latest population estimates to explore age, race, and Hispanic origin demographics and change from 2000 to 2013 at the state and county levels.

- Explorer: Retail Edition—Uses County Business Pattern data on retail trade in America, including the growing online market and industry change from 2000 to 2012

- People, Education and Income—Uses the ACS to examine median household income, labor force participation and the population 65 and older and explore these statistics for states, counties and census tracts for 1990 to the ACS 2009-2013. Also includes County Business Pattern statistics at the state and county-levels, including total number of establishments, average employee pay, and information relating to the technology sector.

- Commuting Edition—Uses data on commuting methods and durations in 1990, 2000 and 2013 (2013-09 American Community Survey). Measures include driving alone, carpooling, taking public transportation, biking, walking, working at home and the percent whose average commute to work takes 60 minutes or more.

Usage of Young Adults and Other Editions

- According to Google Analytics—
  - Since going live in December 2014, this edition has supported 260,000 sessions for 232,000 users and 2.3 million pages
  - Since 2013, all the Census Explorer versions have supported 475,000 sessions from 390,000 users with 10.65 million page views
- As many as 1,000 simultaneous users were supported
- Many newspaper articles, blogs, TV appearances and use by media in many different ways
- The all four of the editions released based upon 2013 data or (2011) for the County Business Patterns have been or will be updated