LED Computer Training
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Activity 1: Using the LED Extraction Tool

Questions: Do workers who have higher education levels get paid more? Does education pay?

Open the LED Extraction tool to find out, from the LED homepage, select "LED Extraction Tool" from under "Applications"

Direct Link: http://ledextract.ces.census.gov/

1.) Geography:
   a. Select Nebraska from the list of states
   b. Just leave the default setting of States/Nebraska for this exercise
   c. Continue to Firm Characteristics
2.) Firm Characteristics:
   a. For this exercise we are just leaving to the defaults
   b. Continue to Worker Characteristics
3.) Worker Characteristics:
   a. Leave the default settings for sax and age
   b. From the dropdown menu "Select Worker Characteristics by:" select *Sex and Education*
   c. Leave sex set on Male and Female
   d. Select all of the Education Categories by checking the box next to all of the items on the list (all 6 boxes should be checked)
   e. Continue to Indicators
4.) Indicators:
   a. The "Employment" section will be automatically expanded and the "Emp" indicator will automatically be selected, for this example we are not looking at employment so you can uncheck this box and it will remove it from the list on the left
   b. Click on the + in the green circle at the bottom of the list to expand out the "Earnings" category
   c. Select the "EarnS" indicator, you will notice it now appears in the Selected Indicators list on the left
   d. Continue to Quarters
5.) Quarters:
   a. By default the most recent four quarters of data is selected, for this example you can leave this at the default setting
   b. Continue to Summary and Export
6.) Summary and Export:
   a. You will notice that program filled in information about your expected results, you should see that an estimated 20 rows of data will be extracted

b. Before you submit your request, check the box that says "Include Labels" that is under the "Submit Request" button, this is will add labels to your columns of data and make it much easier to read your results

c. Now you can hit the "Submit Request" button

d. The progress of you request will show under the "Request Progress" section, this is such a small amount of records it should go really quick, larger data sets will take more time to process

e. While waiting, notice several links to additional information at the bottom of the page, I highly recommend looking at them

f. Your Query Results will appear on the right hand side

g. To access your results click on where it says Download, for today just choose CSV

h. For today just choose to open the file, it should open up in Excel

i. Now you can look at the data to answer the question on if education pays in Nebraska

    i. The column you want to look at matched the variable name you selected, "EarnS"

    ii. You many notice that there is no earnings data available for 2012 quarter 3, not all variables are able to be calculated for all time frames, this is why I had you leave the default of the four quarters so you did not need to extract the data again, you can just look at 2012 quarter 2

LED Extraction Tool Help and Documentation:

http://lehd.ces.census.gov/applications/help/led_extraction_tool.html#!what_is_the_led_extraction_tool

Activity 2: Using OnTheMap

Questions: How many people commute into Norfolk, NE for work? Has this pattern changed over time?

Open OnTheMap to find out from the LED homepage, select "OnTheMap" from under "Applications"

Direct Link: http://onthemap.ces.census.gov/

1) Start:
    a. In the search Box, type "Norfolk"
    b. Select "Places (Cities, CDPs, etc.)" from the drop down box
    c. Click the search button
    d. You will see the list of all cities (places) with the name Norfolk in the US, choose "Norfolk city, NE"
    e. The map will zoom into Norfolk and you will see a word bubble window with the option to "Perform Analysis on Selection Area" Click this
    f. A new window pops up showing us several Analysis Settings and options
        i. We are going to run a basic Inflow/Outflow analysis
        ii. In the Home/Work Area column just leave the default setting, for the report we are running this does not matter
        iii. For Analysis Type select "Inflow/Outflow"
        iv. We are going to look to see if the commuting patters have changed over time, so we are going to select all of the years available
        v. We can leave the Job Type set to the default of "Primary Jobs"
        vi. Now hit "Go!"

2) Results:
   a. You will notice that the map will now colored in, a chart and report appeared on the right, and we are now on a new tab titled "results"
      i. You should see some green areas drawn in on the map, if you do not, zoom the map out
      ii. The arrows on the map tell us how many people are coming into Norfolk to work (6,755, arrow pointed right toward Norfolk), how many people live and work in Norfolk (6,029, the circular arrow) and how many people live in Norfolk but work elsewhere (5,579, the arrow pointed right away from Norfolk)
   b. The Venn diagram in the upper right hand corner tells us the same thing as the chart on the map, except the data is represented with overlapping circles
   c. The chart in the lower right give some more details of the data
   d. You will probably notice that only 2011 data is displayed, there are a few ways we can look at the data for the other years we selected
      i. The first is to make the map and right hand side data show a different year
         1. On the left hand side of the screen on the results tab look under the display settings, you will see a dropdown box for the year that now says 2011
         2. Simply select a different year and the rest of the displays will change to this
      ii. The second is to view the full report
         1. On the left hand side on the results tab look under Report/Map Outputs, select Detailed Report
         2. This opens a new window that shows the full report and includes all years of data selected
         3. This report also gives you some demographic details about these workers
         4. You can export this report in several ways to analyze it and share the results

Questions: Now we know how many people commute to and from Norfolk for work, but where do they come from to work in Norfolk and where they are going if they are leaving Norfolk for work?

1) Change Settings
   a. Since we already have Norfolk selected, we can save some time by just going to "Change Settings" at the lower left hand side of the screen
   b. You will see the Analysis Settings window pop up again
   c. There are two reports that can help us answer the question of where workers are going, we will start with the Distance/Direction report
2) Distance/Direction
   a. First we will look at where people who work in Norfolk go home
      i. In the Analysis Settings menu, change the Home/Work area to work because we want to examine people who work in Norfolk
      ii. For the Analysis Type choose Distance/Direction
      iii. You can keep the rest of the settings the same and click "Go!"
      iv. This report tells us how far and in what direction people go when they get into their car to go home from work
      v. To see the full report and the other years click on "Detailed Report" on the left just like you did before

 b. To see where people who live in Norfolk travel for work we just have to change one setting and re-run the report
  i. Select change settings from the lower left hand corner of the screen
  ii. This time in the Home/Work Area column choose Home
  iii. Keep all the other settings the same and click "Go!"
  iv. This report tells us how far and in what direction people go when they get in their car to go to work
  v. Just like the other reports clicking on the detailed report gives you the full report and all the selected years of data

Questions: Now we know how far and in what general direction people go, but how about what city they are traveling to and from?

1) Change Settings
 a. Since we already have Norfolk selected, we can save some time by just going to "Change Settings" at the lower left hand side of the screen just like before
 b. You will see the Analysis Settings window pop up again
 c. The second report that tells us where works are going is the Destination report
2) Destination
 a. First we will look at where people who work in Norfolk live
  i. In the Analysis Settings menu, change the Home/Work area to work because we want to examine people who work in Norfolk
  ii. For the Analysis Type choose Destination
   1. Make sure the dropdown menu is set to "Places (Cities, CPDs, etc.)
  iii. You can keep the rest of the settings the same and click "Go!"
  iv. This report tells us what city people go to when they get into their car to go home from work
  v. To see the full report and the other years click on "Detailed Report" on the left just like you did before
 b. To see where people who live in Norfolk travel for work we just have to change one setting and re-run the report
  i. Select change settings from the lower left hand corner of the screen
  ii. This time in the Home/Work Area column choose Home
  iii. Keep all the other settings the same and click "Go!"
  iv. This report tells us what city people go to when they get in their car to go to work
  v. Just like the other reports clicking on the detailed report gives you the full report and all the selected years of data

OnTheMap Help and Documentation:

http://lehd.ces.census.gov/applications/help/onthemap.html#!what_is_onthemap

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