

# OnTheMap

## Sample Labor Shed Analysis

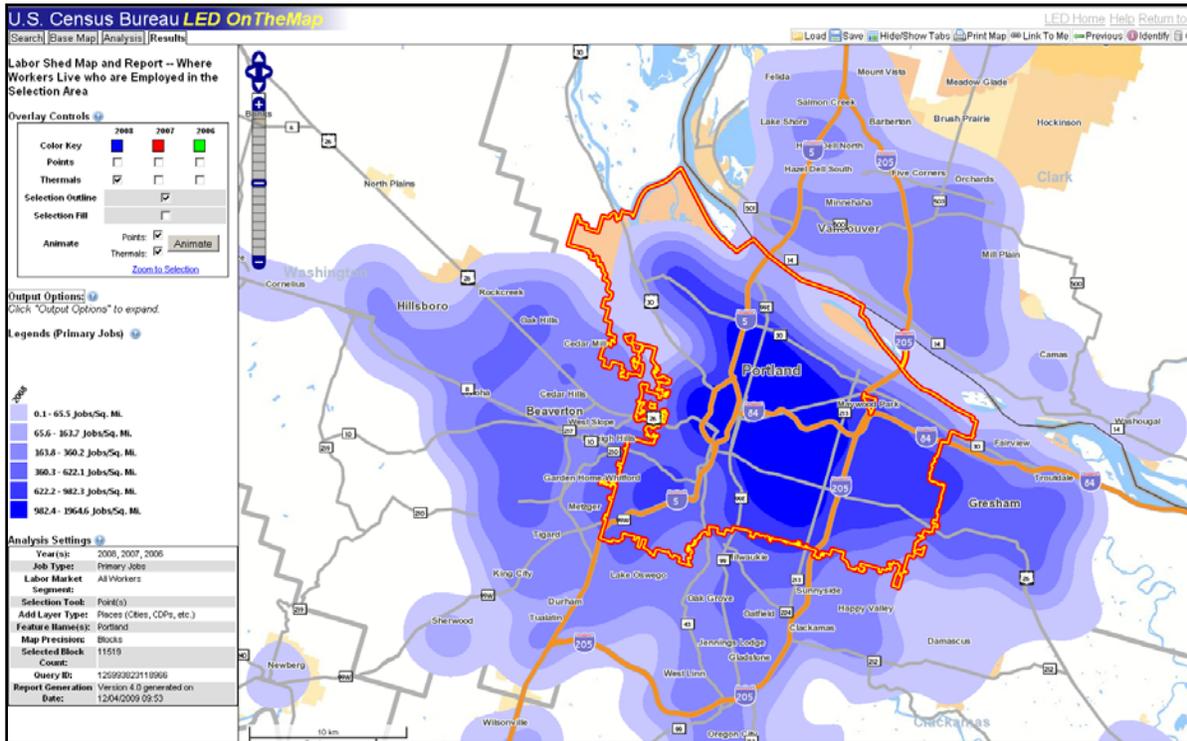
Local Employment Dynamics

All About Jobs

### Where do workers\* employed in the city of Portland, OR live?

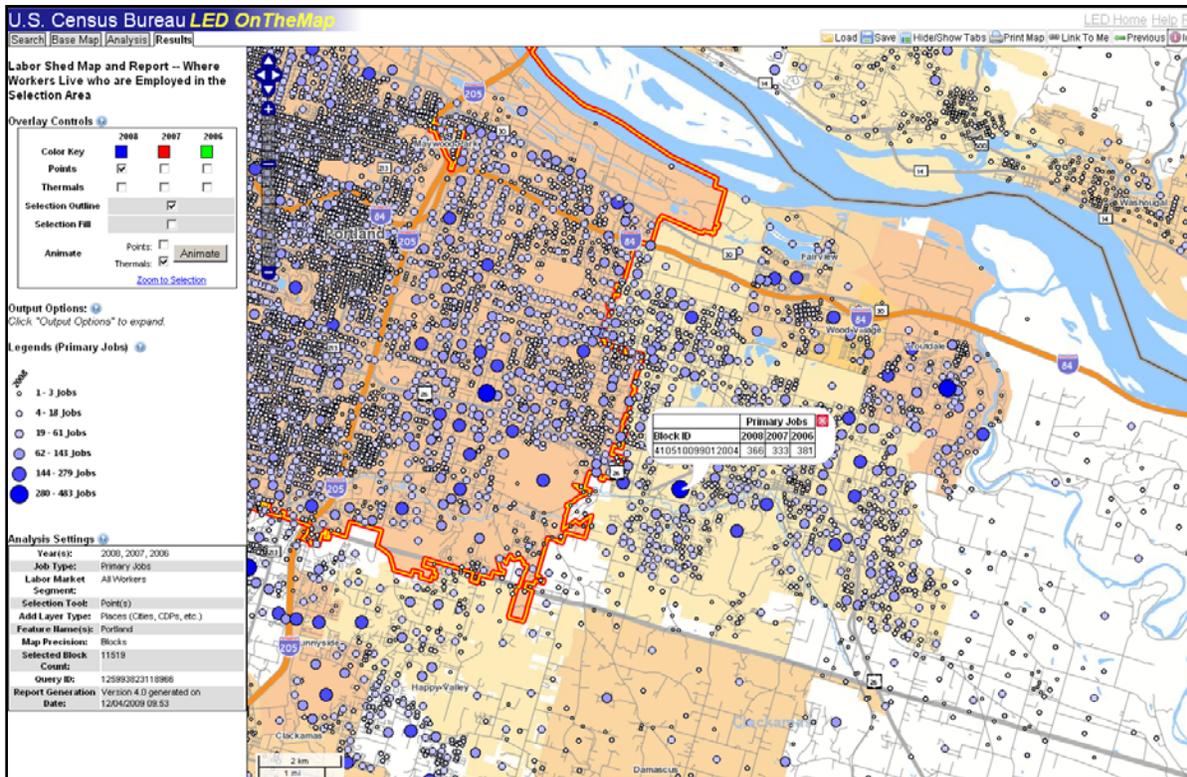
\* Represented as primary jobs covered under the state unemployment insurance system.

1. Go to *Quick Links* at <http://lehd.did.census.gov> and choose *OnTheMap Version 4*.
2. Enter *Portland* in the Search Name text box and click *Enter*.
3. Select *Portland, OR* under the Places (Cities, CDPs, etc.) heading in the control panel on the left.
4. After the map of Portland appears, click on the *Analysis* tab from the top of the control panel on the left.
5. Select *Workplace Area*, 2008, 2007, and 2006 under *Year(s)*, *Primary Jobs*, and *All Workers* from the Data Settings step. Click *Next* near the top of the control panel to proceed to *Step 2: Study Selection Area*.
6. Because *Portland, OR* was clicked while in the *Search* tab, the city is pre-selected as the area of analysis and will be highlighted in red in the map viewer. Click *Next* near the top of the control panel (the selection outline will disappear).
7. In *Step 3: Map Overlay/Report*, change the setting to *Labor Shed Analysis*. In the Rollup box, un-check *Counties* and check the box next to *ZIP Codes (ZCTA)*. Near the top of the control panel, click *Go!* to generate the map overlays and report.
8. When the application finishes processing, an overlay of points, thermals, and a selection outline will appear on top of the base map in the map viewer. Overlay Controls, Output Options, Legends, and Analysis Settings will appear in the control panel on the left as part of the *Results* tab. In Overlay Controls, turn off *Points* for 2008 by clicking in the check box. Using the Scale Ladder Tool in the top left of the map viewer, click the '-' symbol twice to zoom out two levels.



In the map above, homes of workers employed in Portland, OR in 2008 are represented by the blue thermal density overlay. As you can see, residences are concentrated primarily within the city of Portland. Home locations can also be seen with varying concentrations in the surrounding suburbs and across the Columbia River in the state of Washington.

9. Turn off *Thermals* and turn on *Points* for 2008 by clicking in the check boxes under 2008. Suppose one is interested in workers commuting from residences in Gresham, OR to workplaces in Portland. Click on the *Search* tab in the top left of the control panel, and type *Gresham* into the Search text box. Select *Gresham, OR* under the Places (Cities, CDPs, etc.) heading to zoom to the city boundaries. At the top of the control panel on the left, click on the *Results* tab to see the Legends for the overlays.



Note: Worker ranges in the Legends may not exactly match the graphic above, as different screen sizes and resolutions may generate slightly different numbers.

In the map above, resident locations are aggregated into census blocks – each represented by one blue dot. Census blocks with no residents working in Portland will not show a blue dot. Refer to the Legends (Primary Jobs) section in the **Results** tab to see the estimated number of Portland workers living in each block for the selected year. The **Identify** tool (top right corner of the map viewer) provides an exact count of jobs living in each block. The identify bubble in the map above shows that 366 primary jobs live in block '410510099012004' and work in Portland as of 2008.

10. To identify a census block and view the count of jobs living in that block, click the **Identify** (  Identify) button in the top right corner above the map viewer, then immediately click in the center of one of the point features. The 15-character census block identifier and the count of jobs will pop-up for each mapped year of data. The **Identify** button must be clicked each time before identifying a new block.

11. Click on the link **Zoom to Selection** under the **Animate** button. This will re-center the map viewer on Portland, which is still considered the selection area. Un-check both the **Points** box in the **2008** column and the **Points** box next to the **Animate** button. Also, check all **Thermals** boxes (2008, 2007, and 2006) – this will help the loading speed of the animation. Click the **Animate** button to see three longitudinal years of Labor Shed thermal overlays displayed dynamically in the map viewer. Click **Stop** button to halt the animation.

12. In the middle of the control panel (with the **Results** tab active) click on the **HTML** report output option to see the Labor Shed report for Portland, OR. Make sure the pop-up blocker is turned off on your web browser.

In the Labor Shed Report shown below, home locations of Portland workers are shown aggregated into the three rollups selected in step three of the **Analysis** tab, **Places (Cities, CDPs, etc.)**, **States**, and **ZIP Codes (ZCTA)**.

<b>Labor Shed Report -- Where Workers Live who are Employed in the Selection Area</b>						
<u>Total Primary Jobs</u>						
	2008		2007		2006	
	Count	Share	Count	Share	Count	Share
Total Primary Jobs	371,678	100.0%	362,257	100.0%	355,182	100.0%

<u>Jobs in Places (Cities, CDPs, etc.) Where Workers Live</u>						
	2008		2007		2006	
	Count	Share	Count	Share	Count	Share
Portland city, OR	159,642	43.0%	155,581	42.9%	158,279	44.6%
Gresham city, OR	18,429	5.0%	18,379	5.1%	18,638	5.2%
Vancouver city, WA	16,055	4.3%	15,340	4.2%	15,927	4.5%
Beaverton city, OR	13,311	3.6%	12,748	3.5%	13,262	3.7%
Hillsboro city, OR	6,789	1.8%	6,571	1.8%	6,622	1.9%
Tigard city, OR	5,826	1.6%	5,630	1.6%	5,676	1.6%
Lake Oswego city, OR	5,740	1.5%	5,807	1.6%	6,044	1.7%
Aloha CDP, OR	5,364	1.4%	5,151	1.4%	4,919	1.4%
Milwaukie city, OR	4,142	1.1%	4,142	1.1%	4,236	1.2%
Oregon City city, OR	3,979	1.1%	4,031	1.1%	3,727	1.0%
All Other Locations	132,401	35.6%	128,877	35.6%	117,852	33.2%

<u>Jobs in States Where Workers Live</u>						
	2008		2007		2006	
	Count	Share	Count	Share	Count	Share
Oregon	329,735	88.7%	322,189	88.9%	314,877	88.7%
Washington	41,168	11.1%	39,380	10.9%	39,799	11.2%
California	322	0.1%	254	0.1%	184	0.1%
Idaho	121	0.0%	112	0.0%	71	0.0%
Montana	36	0.0%	31	0.0%	35	0.0%
All Other Locations	296	0.1%	291	0.1%	216	0.1%

<u>Jobs in ZIP Codes (ZCTA) Where Workers Live</u>	2008		2007		2006	
	Count	Share	Count	Share	Count	Share
97206	12,765	3.4%	12,417	3.4%	12,673	3.6%
97202	12,017	3.2%	11,567	3.2%	11,464	3.2%
97211	10,422	2.8%	10,061	2.8%	10,307	2.9%
97217	10,106	2.7%	9,673	2.7%	9,580	2.7%
97219	9,722	2.6%	9,603	2.7%	9,869	2.8%
97213	9,591	2.6%	9,470	2.6%	9,950	2.8%
97266	9,302	2.5%	9,040	2.5%	7,115	2.0%
97214	8,857	2.4%	8,886	2.5%	9,051	2.5%
97236	8,381	2.3%	8,436	2.3%	7,337	2.1%
97230	8,151	2.2%	7,833	2.2%	8,341	2.3%
All Other Locations	272,364	73.3%	265,271	73.2%	259,495	73.1%

<u>Report Settings</u>	
Year(s):	2008, 2007, 2006
Job Type:	Primary Jobs
Labor Market Segment:	All Workers
Selection Tool:	Point(s)
Add Layer Type:	Places (Cities, CDPs, etc.)
Feature Name(s):	Portland
Map Precision:	Blocks
Selected Block Count:	11519
Query ID:	125993823118966
Report Generation Date:	Version 4.0 generated on 12/04/2009 09:53

13. Under Output Options, the report is also available in **Excel**, **PDF (Report Only)**, or **PDF (Map and Report)** formats. To download the points, thermals, and selection outline overlays, click the **Shapefile (All Overlays)** or **KML (All Overlays)** links. Additionally, a list of the Census Blocks that composed the selection area is available by clicking the **DBF (Selection Area Blocks)** link.

14. For a companion analysis, follow the steps in a [Sample Area Profile Analysis](#) to see a map and report showing the distribution and characteristics of workers employed in Portland, OR.