

# OnTheMap Version 3

## *How To* Create a Concentric Ring Analysis

Local Employment Dynamics

All About Jobs

The *How To* series demonstrates specific features or new methods for performing analyses in OnTheMap Version 3. For a complete introduction to OnTheMap, as well as sample analyses, please go to the [OnTheMap Version 3 Information/Help Page](#).

**Purpose:** This document will demonstrate how to quickly replicate the Concentric Ring Analysis from previous versions of OnTheMap. In short, this involves creating map overlays and reports that allow comparisons between three buffered areas radiating from a single location.

**Sample Workforce Question:** [What are the characteristics of workers\\* employed within 5, 10, and 15 miles the Redbird Workforce Center in Dallas, TX?](#)

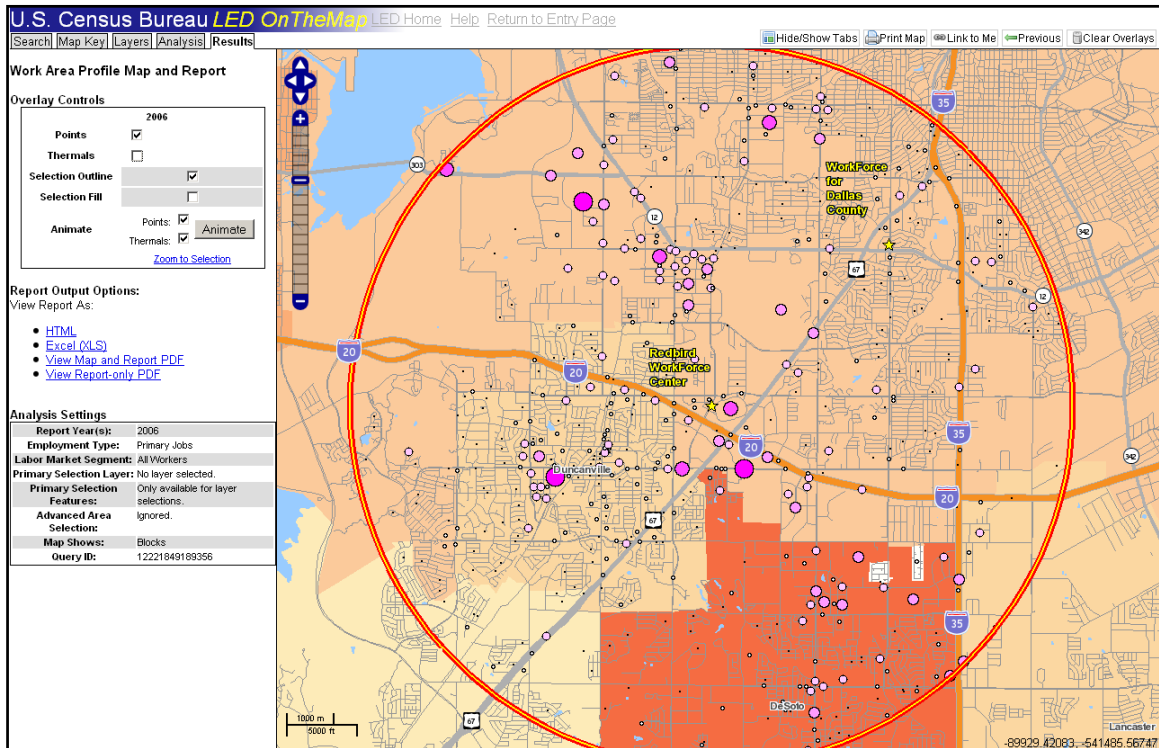
\* Represented as primary jobs covered under the state unemployment insurance system.

### 1. Locate Redbird Workforce Center using OnTheMap

- a) Go to *Quick Links* at <http://lehd.did.census.gov> and choose *OnTheMap Version 3*.
- b) Enter *Redbird* in the Place Name text box and click *Enter*.
- c) Select *Redbird WorkForce Center* under the One-Stop Career Centers heading in the Control Panel on the left.

### 2. Create an Analysis using the Ring/Buffer Selection Tool

- a) After the map showing the One-Stop Center appears, click on the *Analysis* tab from the top of the Control Panel on the left.
- b) Select *Workplace Area*, 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 the next step.
- c) Click on *Ring/Buffer* from the available Selection Tools. Keep the *Point* method selected and enter "5" into the Radius box. Using your mouse, simply left-click once in the map viewer on the star indicating the location of the Redbird Workforce Center.
- d) A blue circle will appear in the Area Shape box in the Control Panel. Click *Next* to continue.
- e) The third step, Advanced Area Selection, is used for more advanced analyses. Keep the default *Skip this Step* setting and click *Next*.
- f) In the fourth step, called Map Overlay/Report, keep the default setting – *Work Area Profile Analysis*. Near the top of the Control Panel, click *Go!* to generate the map overlay and report.



In the map above, the purple points represent employment locations within five miles of the One-Stop Center for 2006. Each point represents one Census Block.

### 3. Create Report (and/or Map Overlay) Output

- a) 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, Report Output Options, and Analysis Settings should appear in the Control Panel on the left as part of the **Results** tab.
- b) If a Map Overlay output of each buffered area is desired, click on the **Print Map** button above the map viewer. Enter an appropriate Map Title, select the desired settings, and click **Print Map**. Set the PDF map aside for now.
- c) In the middle of the Control Panel (with the **Results** tab active) click on the **Excel (XLS)** report output option to see the Work Area Profile report for the five mile buffered area. Make sure the pop-up blocker is turned off on your web browser and click **OK** when prompted to open the spreadsheet with Excel. Set the spreadsheet aside for now and return to the OnTheMap application.

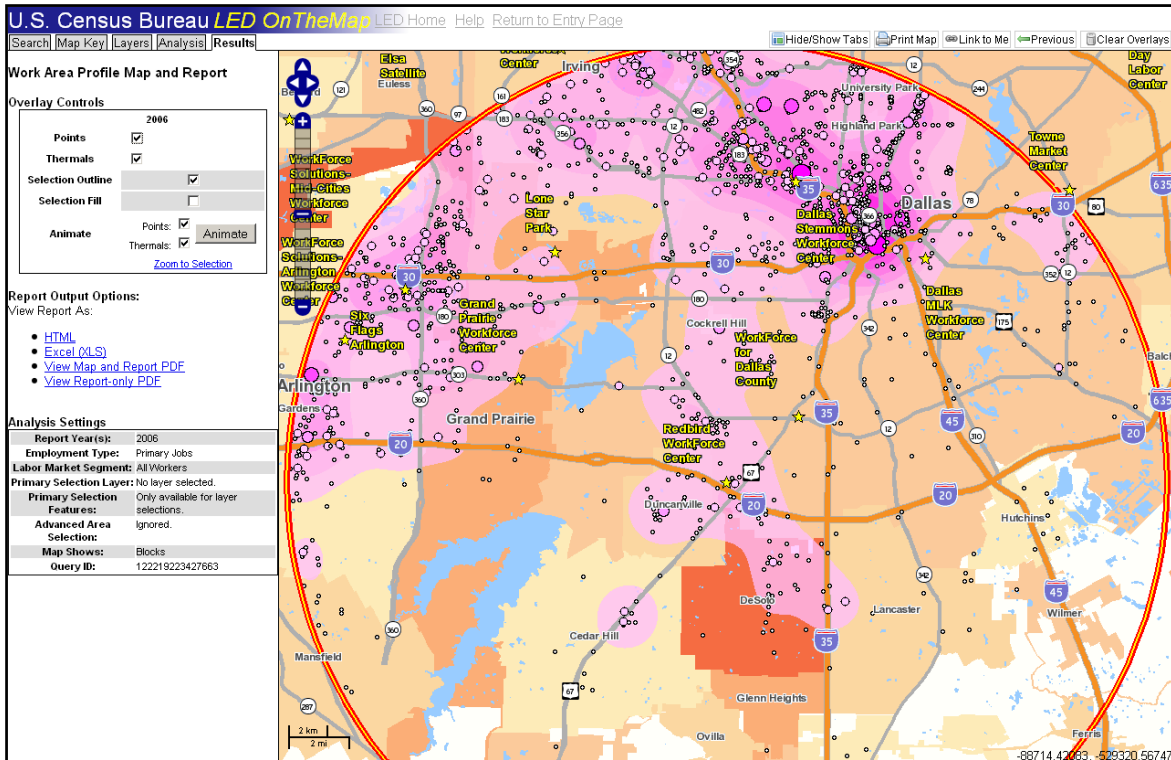
### 4. Re-generate the Same Analysis Using a Different Ring Radius

- a) Click on the **Analysis** tab and select Step 2: Study Area Selection from the drop-down box. Change the Radius value from "5" to "10". There is no need to re-select the center point of the analysis. The application will automatically adjust the buffered circle to the new radius.

b) In the drop-down box at the top of the Control Panel, select Step 4: Map Overlay/Report. Click **Go!** to re-generate the map overlay and report for the new buffered area of analysis.

## 5. Repeat Process to Create the Final Ring

a) Repeat Steps 2 and 3, replacing the radius of “10” with “15” in the Ring/Buffer Selection Tool.



In the map above, employment locations within fifteen miles of the Redbird WorkForce Center for 2006 are show in both point and thermal overlays.

## 6. Combine and Analyze Report Outputs

a) Export the final report to an Excel (XLS) spreadsheet. In the 10 mile buffer spreadsheet, select and copy the **B** and **C** columns (Count and Share), and insert the columns into the **D** and **E** columns of the 5 mile buffer spreadsheet. Do the same thing with the 15 mile buffer spreadsheet, select and copy the **B** and **C** columns (Count and Share), and insert the columns into the **F** and **G** columns of the 5 mile buffer spreadsheet.

b) Give each set of columns appropriate names (5 Mile Buffer Area, etc.). The resulting report perfectly replicates the Concentric Ring Report from previous versions of OnTheMap, and allows side-by-side comparisons of user-defined buffered areas.

	A	B	C	D	E	F	G
1	<b>Work Area Profile Report</b>						
2	<b>5 Mile Buffer Area 10 Mile Buffer Area 15 Mile Buffer Area</b>						
3	<b>Total Primary Jobs</b>						
4		2006		2006		2006	
5		Count	Share	Count	Share	Count	Share
6	Total Primary Jobs	49,067	100.0%	242,664	100.0%	780,432	100.0%
7							
8	<b>Jobs by Worker Age</b>						
9		2006		2006		2006	
10		Count	Share	Count	Share	Count	Share
11	Age 30 or younger	14,246	29.0%	58,981	24.3%	200,245	25.7%
12	Age 31 to 54	27,170	55.4%	144,631	59.6%	460,850	59.1%
13	Age 55 or older	7,651	15.6%	39,052	16.1%	119,336	15.3%
14							
15	<b>Jobs by Earnings Paid</b>						
16		2006		2006		2006	
17		Count	Share	Count	Share	Count	Share
18	\$1,200 per month or less	12,733	26.0%	45,092	18.6%	153,202	19.6%
19	\$1,201 to \$3,400 per month	23,344	47.6%	96,288	39.7%	302,122	38.7%
20	More than \$3,400 per month	12,990	26.5%	101,284	41.7%	325,107	41.7%
21							
22	<b>Jobs by Industry Type (2-digit NAICS)</b>						
23		2006		2006		2006	
24		Count	Share	Count	Share	Count	Share
25	Agriculture, Forestry, Fishing and Hunting	3	0.0%	149	0.1%	582	0.1%
26	Mining, Quarrying, and Oil and Gas Extraction	15	0.0%	2,344	1.0%	4,778	0.6%
27	Utilities	60	0.1%	4,615	1.9%	7,597	1.0%
28	Construction	1,844	3.8%	12,225	5.0%	42,341	5.4%
29	Manufacturing	10,560	21.5%	35,147	14.5%	83,541	10.7%
30	Wholesale Trade	4,471	9.1%	13,728	5.7%	51,945	6.7%
31	Retail Trade	7,825	15.9%	22,713	9.4%	74,423	9.5%
32	Transportation and Warehousing	1,656	3.4%	17,014	7.0%	46,539	6.0%
33	Information	865	1.8%	9,997	4.1%	31,432	4.0%
34	Finance and Insurance	1,175	2.4%	14,949	6.2%	48,915	6.3%
35	Real Estate and Rental and Leasing	1,104	2.2%	3,967	1.6%	18,992	2.4%
36	Professional, Scientific, and Technical Services	1,093	2.2%	17,603	7.3%	59,783	7.7%
37	Management of Companies and Enterprises	489	1.0%	1,333	0.5%	6,502	0.8%
38	Administration & Support, Waste Management and Remediation Services	2,155	4.4%	9,208	3.8%	57,280	7.3%
39	Educational Services	3,586	7.3%	19,798	8.2%	64,647	8.3%
40	Health Care and Social Assistance	6,294	12.8%	17,800	7.3%	72,135	9.2%
41	Arts, Entertainment, and Recreation	368	0.7%	3,657	1.5%	10,604	1.4%
42	Accommodation and Food Services	3,300	6.7%	14,777	6.1%	57,438	7.4%
43	Other Services (excluding Public Administration)	1,729	3.5%	6,371	2.6%	19,923	2.6%
44	Public Administration	475	1.0%	15,269	6.3%	21,033	2.7%
45							
46	<b>QWI Indicators - Private Sector Jobs</b>						
47		2006		2006		2006	
48		Count	Share	Count	Share	Count	Share
49	Number of Employers	2,408	100.0%	8,830	100.0%	36,777	100.0%
50	Employment (Beginning-of-2nd quarter)	41,860	100.0%	170,749	100.0%	678,724	100.0%
51	Employment, Stable Jobs	35,669	100.0%	148,554	100.0%	585,761	100.0%
52	Separations, Stable Jobs	3,768	100.0%	14,046	100.0%	56,177	100.0%
53	New Hires, Stable Jobs	4,920	100.0%	17,316	100.0%	79,842	100.0%
54	Firm Job Gain	1,890	100.0%	9,127	100.0%	39,106	100.0%
55	Firm Job Loss	1,802	100.0%	6,794	100.0%	23,906	100.0%
56	Employment (reference quarter)	51,391	100.0%	209,177	100.0%	844,225	100.0%
57	Average Monthly Earnings, Stable Jobs	2,601	100.0%	2,758	100.0%	3,131	100.0%
58	Average Monthly Earnings Separations from Stable Jobs	1,111	100.0%	1,321	100.0%	1,590	100.0%
59	Average Monthly Earnings, New Hires, Stable Jobs	1,785	100.0%	2,018	100.0%	2,194	100.0%

In the spreadsheet above, all three reports have been combined to allow comparison between the three different buffered areas. Note the high percentage of manufacturing workers employed within five miles of the One-Step Center, as well as the difference in earnings per month between the smallest and the two biggest areas

## **7. Going Forward**

- a) For a companion Concentric Ring Analysis, follow these same steps while generating a Labor Shed Analysis. The resulting report will allow comparisons of residential locations for workers employed within the selected buffered areas.
- b) Additionally, users should follow these same steps while analyzing the buffered selections as Home/Residential Areas. The resulting report will allow comparisons of the characteristics of workers living within 5, 10, and 15 miles of the Redbird WorkForce Center.