# *Local Employment Dynamics'*
# OnTheMap v. 3
# All New Information

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October 2008

# Uses for *OnTheMap*

## Economic Planning & Time Series

- Where is the labor supply located?
- Which industries are growing or declining over time?

## Transportation planning & analysis

- Between which areas do workers commute?

## Emergency management

- Daytime population estimates

# When there was…

…a bridge collapse in Minneapolis,

…a proposed plant closure in Missouri,

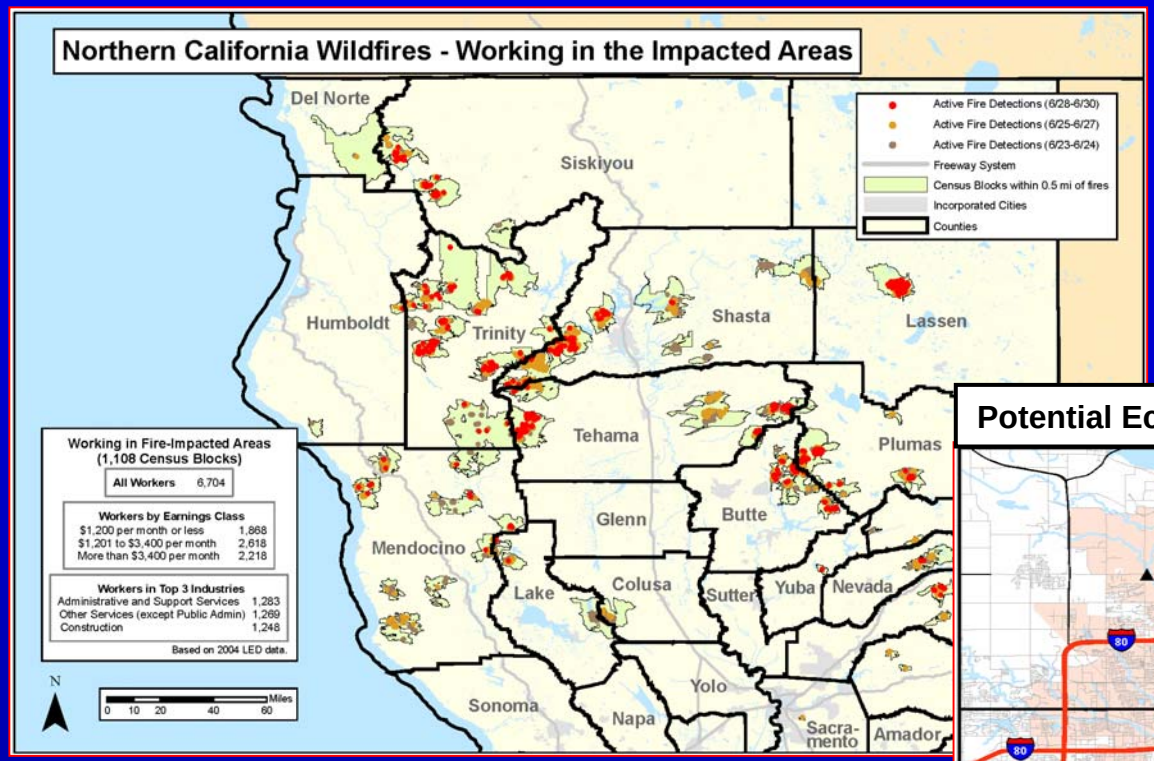
…a hurricane headed for the east coast,

…a rash of wild fires in California,

…a flood in Iowa

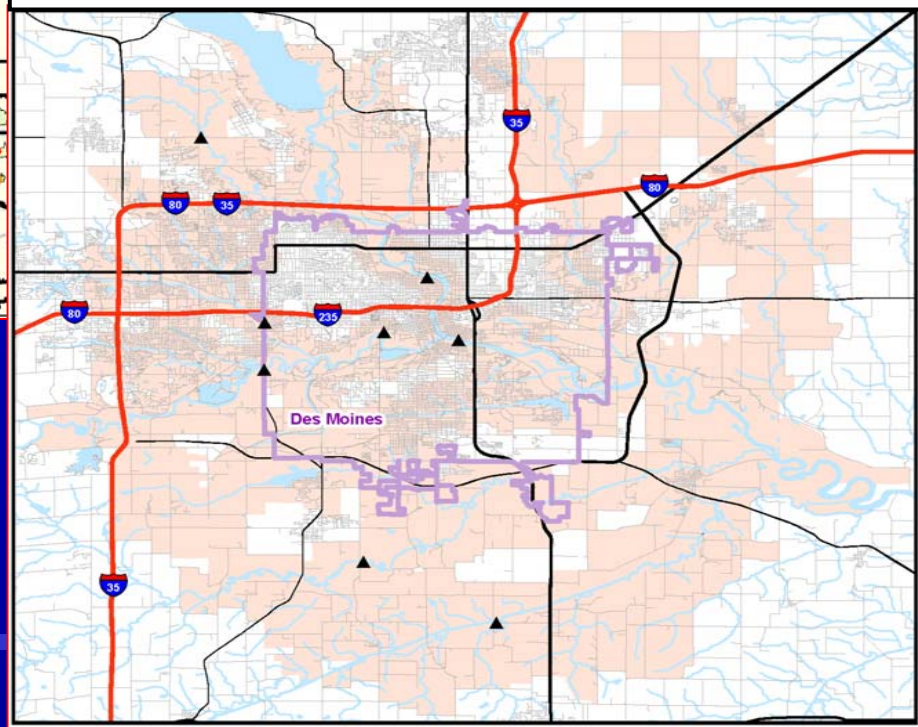
**What kind of economic information did OnTheMap provide?**

# Emergency Response




Detailed GIS analyses using OnTheMap's underlying data

**Potential Economic Impact of Flooding in Des Moines, IA**



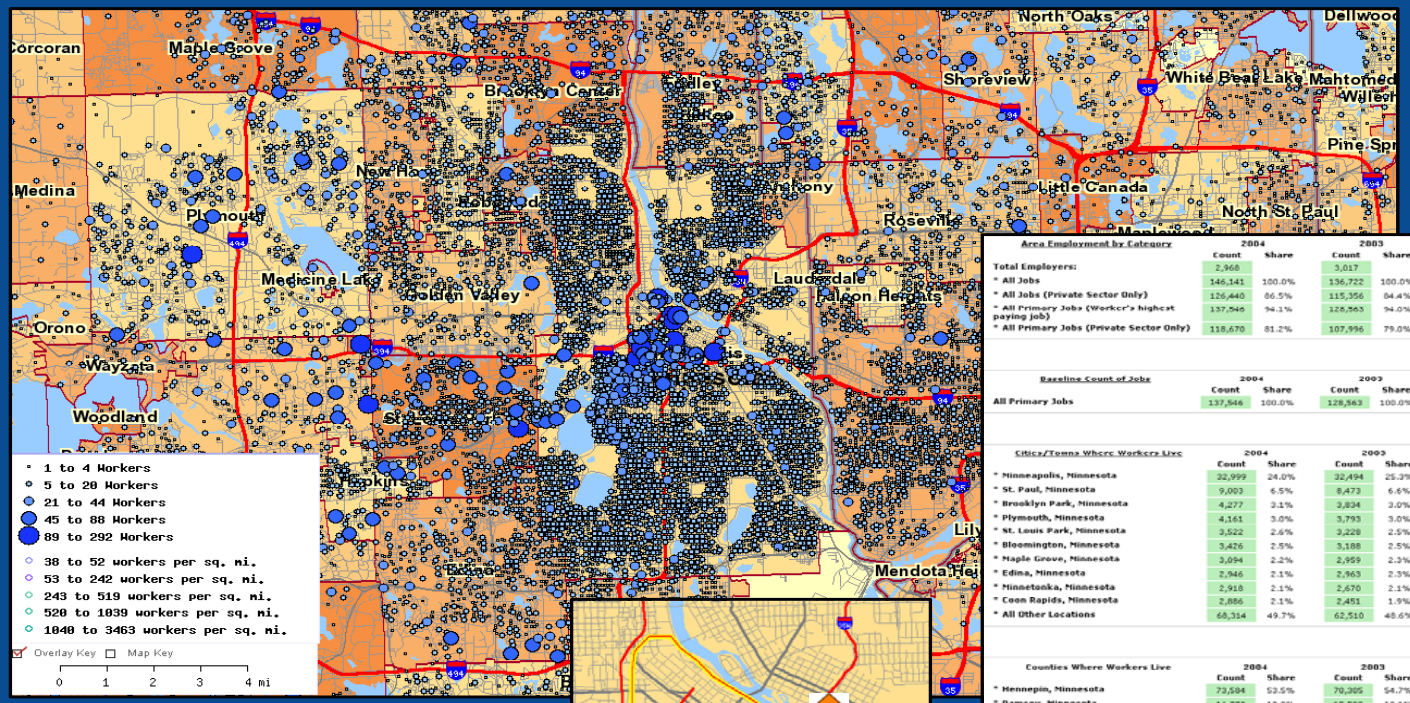

Analyses at the Census Block level of geographical detail

# Impact of I-35W Bridge Collapse

## *OnTheMap*

**Labor Shed Analysis**

Where Workers in the Central Business District Live




Area Employment by Category

| | 2004 Count | 2004 Share | 2003 Count | 2003 Share | 2002 Count | 2002 Share |
|---|---|---|---|---|---|---|
| Total Employers: | 2,968 | | 3,017 | | 2,985 | |
| * All Jobs | 146,141 | 100.0% | 136,722 | 100.0% | 143,784 | 100.0% |
| * All Jobs (Private Sector Only) | 126,440 | 86.5% | 115,356 | 84.4% | 121,794 | 84.7% |
| * All Primary Jobs (Worker's highest paying job) | 137,546 | 94.1% | 128,563 | 94.0% | 135,068 | 93.9% |
| * All Primary Jobs (Private Sector Only) | 118,670 | 81.2% | 107,996 | 79.0% | 114,011 | 79.3% |

Baseline Count of Jobs

| | 2004 Count | 2004 Share | 2003 Count | 2003 Share | 2002 Count | 2002 Share |
|---|---|---|---|---|---|---|
| All Primary Jobs | 137,546 | 100.0% | 128,563 | 100.0% | 135,068 | 100.0% |

Cities/Towns Where Workers Live

| | 2004 Count | 2004 Share | 2003 Count | 2003 Share | 2002 Count | 2002 Share |
|---|---|---|---|---|---|---|
| * Minneapolis, Minnesota | 32,999 | 24.0% | 32,494 | 25.3% | 34,394 | 25.5% |
| * St. Paul, Minnesota | 9,003 | 6.5% | 8,473 | 6.6% | 9,287 | 6.9% |
| * Brooklyn Park, Minnesota | 4,277 | 3.1% | 3,834 | 3.0% | 4,104 | 3.0% |
| * Plymouth, Minnesota | 4,161 | 3.0% | 3,793 | 3.0% | 3,844 | 2.8% |
| * St. Louis Park, Minnesota | 3,522 | 2.6% | 3,228 | 2.5% | 3,542 | 2.6% |
| * Bloomington, Minnesota | 3,426 | 2.5% | 3,188 | 2.5% | 3,264 | 2.4% |
| * Maple Grove, Minnesota | 3,094 | 2.2% | 2,959 | 2.3% | 3,072 | 2.3% |
| * Edina, Minnesota | 2,946 | 2.1% | 2,963 | 2.3% | 2,961 | 2.2% |
| * Minnetonka, Minnesota | 2,918 | 2.1% | 2,670 | 2.1% | 2,779 | 2.1% |
| * Coon Rapids, Minnesota | 2,886 | 2.1% | 2,451 | 1.9% | 2,517 | 1.9% |
| * All Other Locations | 68,314 | 49.7% | 62,510 | 48.6% | 65,304 | 48.6% |

Counties Where Workers Live

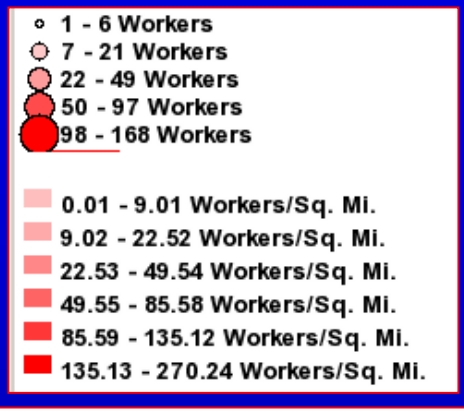
| | 2004 Count | 2004 Share | 2003 Count | 2003 Share | 2002 Count | 2002 Share |
|---|---|---|---|---|---|---|
| * Hennepin, Minnesota | 73,584 | 53.5% | 70,305 | 54.7% | 73,536 | 54.4% |
| * Ramsey, Minnesota | 16,770 | 12.2% | 15,582 | 12.1% | 16,814 | 12.4% |
| * Anoka, Minnesota | 12,539 | 9.1% | 11,211 | 8.7% | 11,521 | 8.5% |
| * Dakota, Minnesota | 10,964 | 8.0% | 10,076 | 7.8% | 10,782 | 8.0% |
| * Washington, Minnesota | 5,001 | 3.6% | 4,438 | 3.5% | 4,782 | 3.5% |
| * Scott, Minnesota | 2,159 | 1.6% | 1,888 | 1.5% | 2,027 | 1.5% |
| * Wright, Minnesota | 1,631 | 1.2% | 1,567 | 1.2% | 1,388 | 1.0% |
| * Carver, Minnesota | 1,565 | 1.1% | 1,460 | 1.1% | 1,587 | 1.2% |
| * Chisago, Minnesota | 1,205 | 0.9% | 1,062 | 0.8% | 1,036 | 0.8% |
| * Stearns, Minnesota | 1,067 | 0.8% | 967 | 0.8% | 891 | 0.7% |
| * All Other Locations | 11,061 | 8.0% | 10,007 | 7.8% | 10,704 | 7.9% |

Area of Impact: CBD SW of bridge

Local Employment Dynamics | All About Jobs

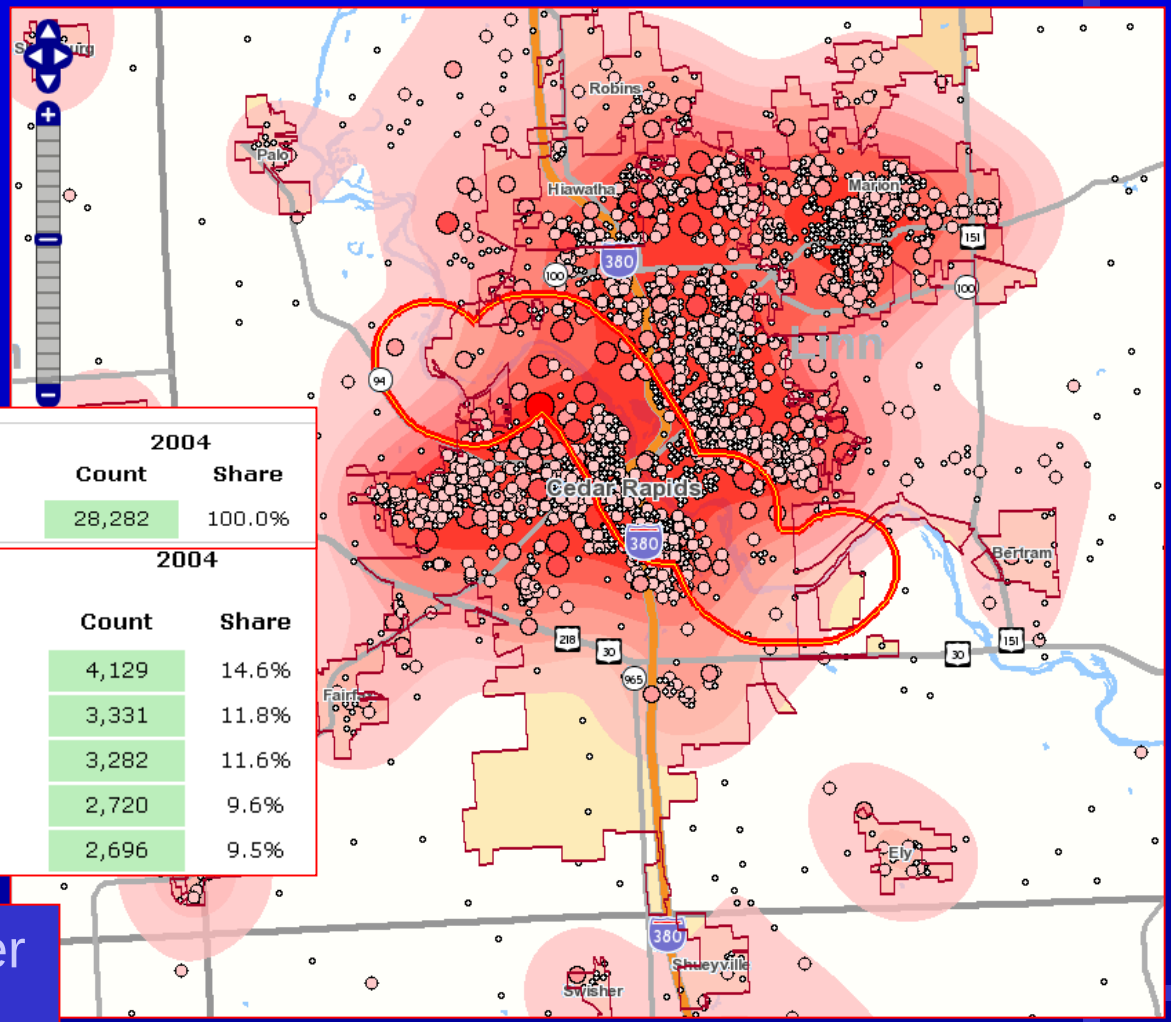
USCENSUSBUREAU
Helping You Make Informed Decisions

# AP: "The flooding in Cedar Rapids swamped 1,300 city blocks, forced 24,000 people to flee their homes…"




| All Primary Jobs Total | 2004 Count | 2004 Share |
|---|---|---|
| All Primary Jobs Total | 28,282 | 100.0% |

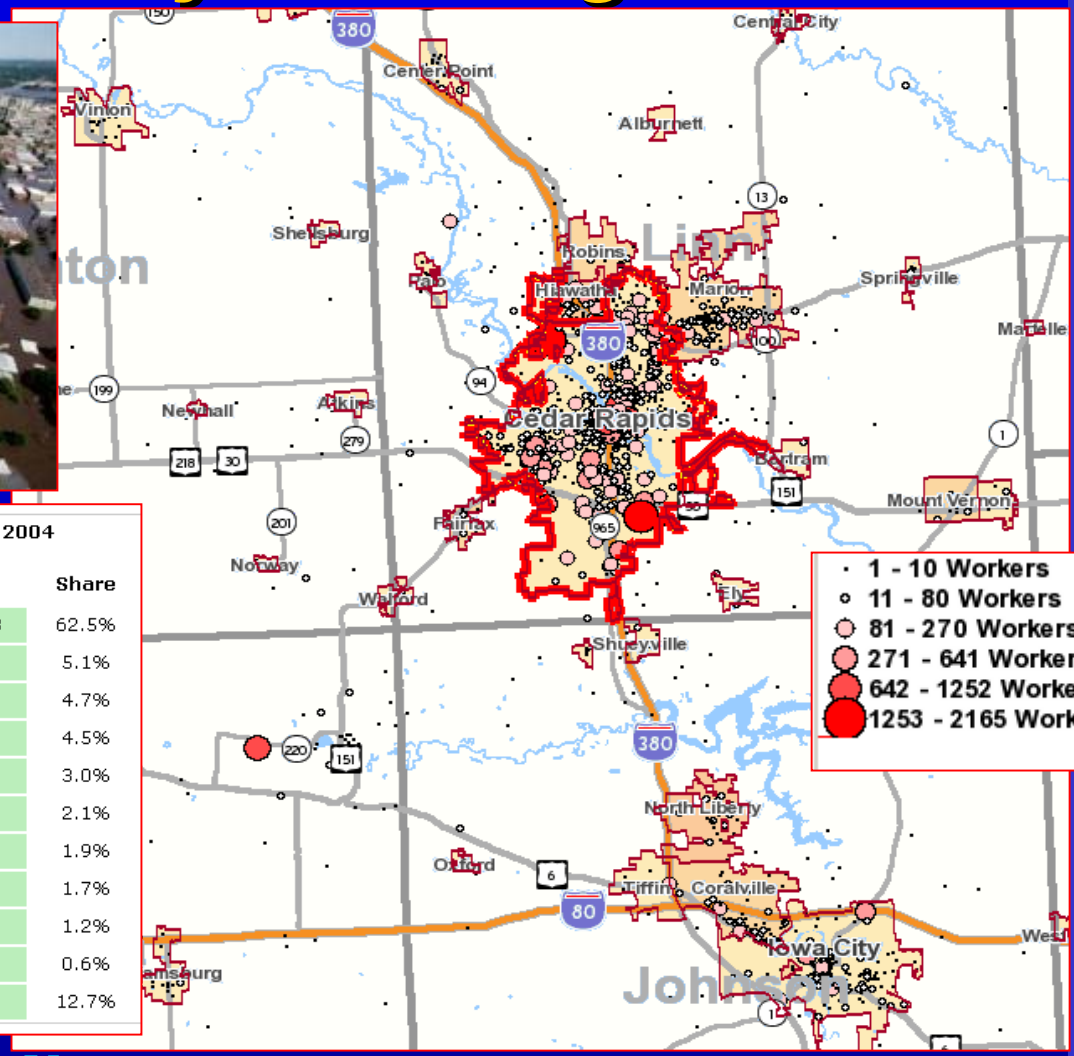
| Job counts in ZIP Codes (ZCTA) Where Where Workers Live | 2004 Count | 2004 Share |
|---|---|---|
| 52402 | 4,129 | 14.6% |
| 52405 | 3,331 | 11.8% |
| 52404 | 3,282 | 11.6% |
| 52403 | 2,720 | 9.6% |
| 52302 | 2,696 | 9.5% |



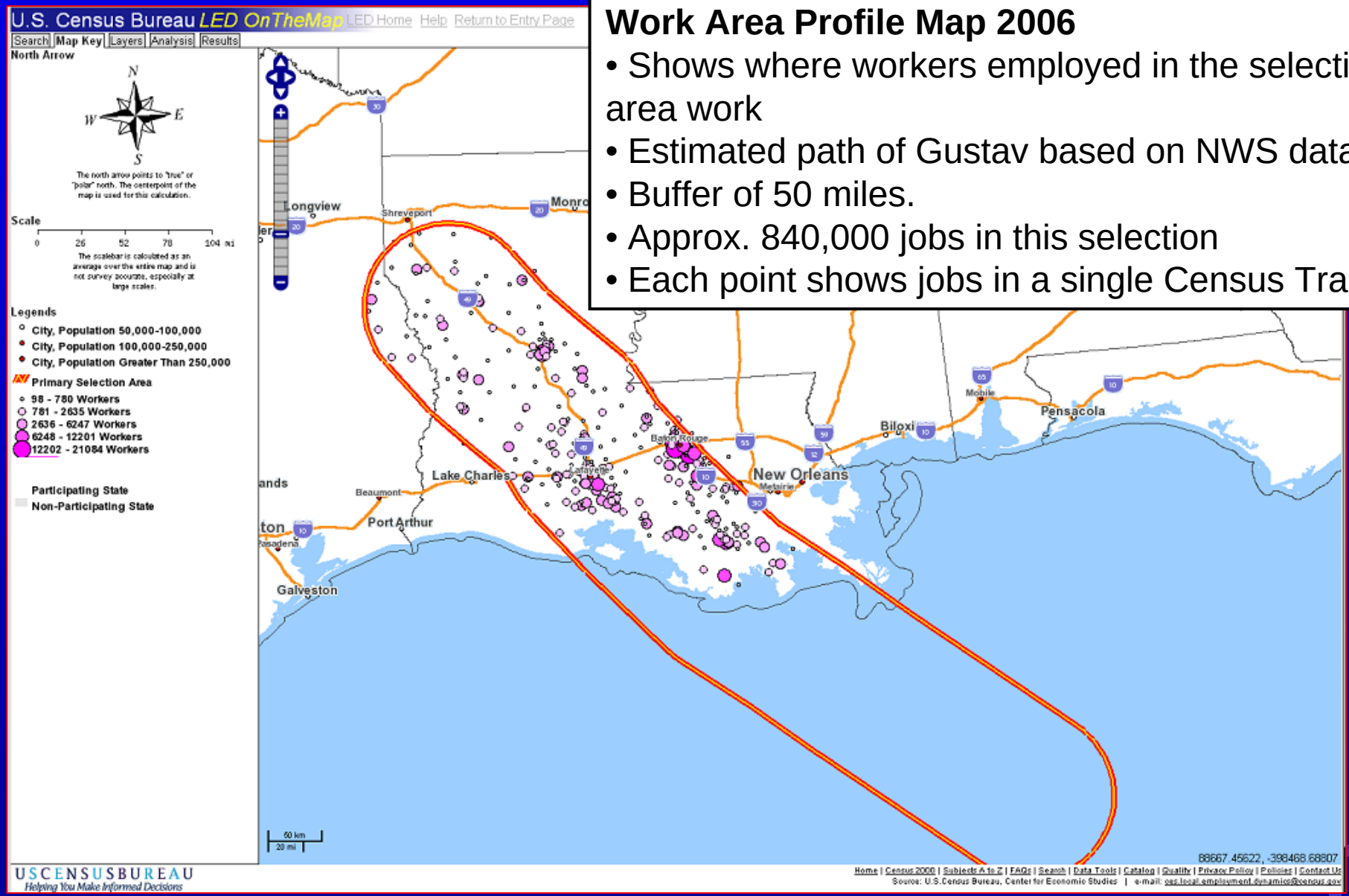

Analysis uses 1 mile buffer on either side of river

# AP: "9.2 square miles of the city affected by flooding"

| Job counts in Cities/Towns Where Where Resident-Workers are Employed | 2004 | |
|---|---|---|
| | Count | Share |
| Cedar Rapids, Iowa | 34,868 | 62.5% |
| Unincorporated, Iowa | 2,828 | 5.1% |
| Marion, Iowa | 2,627 | 4.7% |
| Iowa City, Iowa | 2,536 | 4.5% |
| Hiawatha, Iowa | 1,679 | 3.0% |
| Des Moines, Iowa | 1,161 | 2.1% |
| Davenport, Iowa | 1,080 | 1.9% |
| Coralville, Iowa | 929 | 1.7% |
| Waterloo, Iowa | 658 | 1.2% |
| Dubuque, Iowa | 362 | 0.6% |
| All Other Locations | 7,024 | 12.7% |



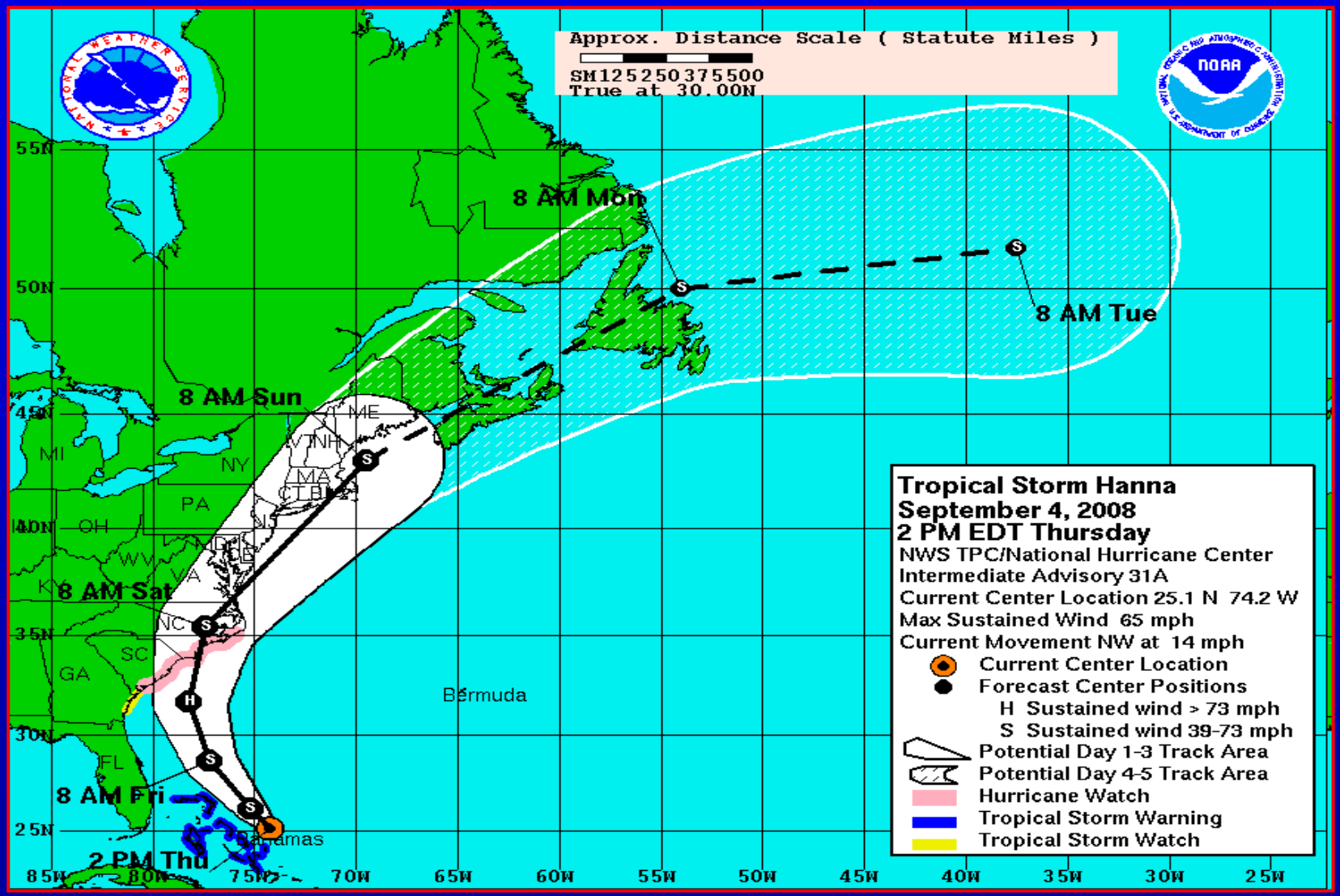
# Hurricane Gustav



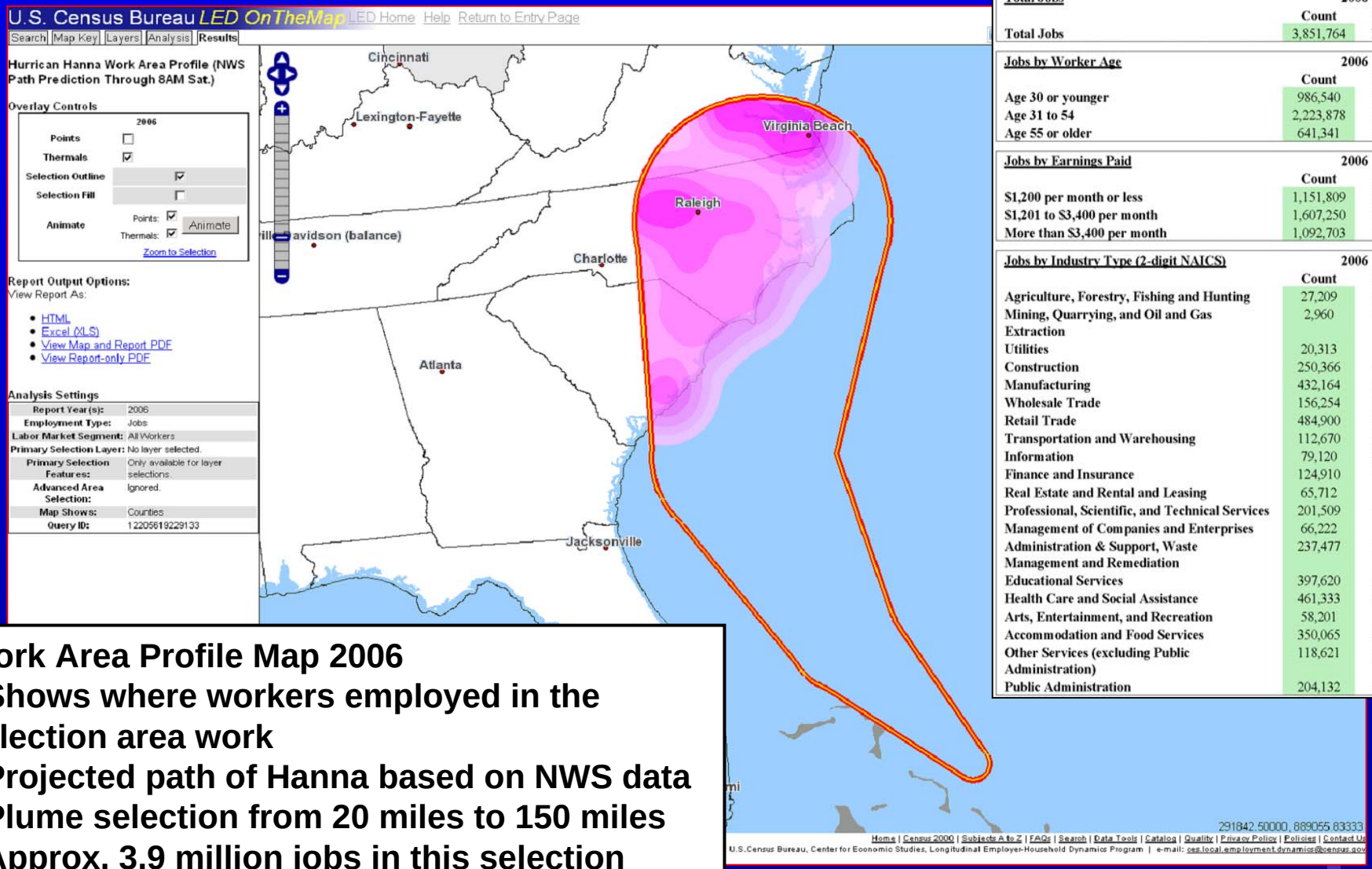

**Work Area Profile Map 2006**

- Shows where workers employed in the selection area work
- Estimated path of Gustav based on NWS data
- Buffer of 50 miles.
- Approx. 840,000 jobs in this selection
- Each point shows jobs in a single Census Tract

# Hurricane Hanna



# Hurricane Hanna




| Total Jobs | 2006 Count | 2006 Share |
|---|---|---|
| Total Jobs | 3,851,764 | 100.0% |

| Jobs by Worker Age | 2006 Count | 2006 Share |
|---|---|---|
| Age 30 or younger | 986,540 | 25.6% |
| Age 31 to 54 | 2,223,878 | 57.7% |
| Age 55 or older | 641,341 | 16.7% |

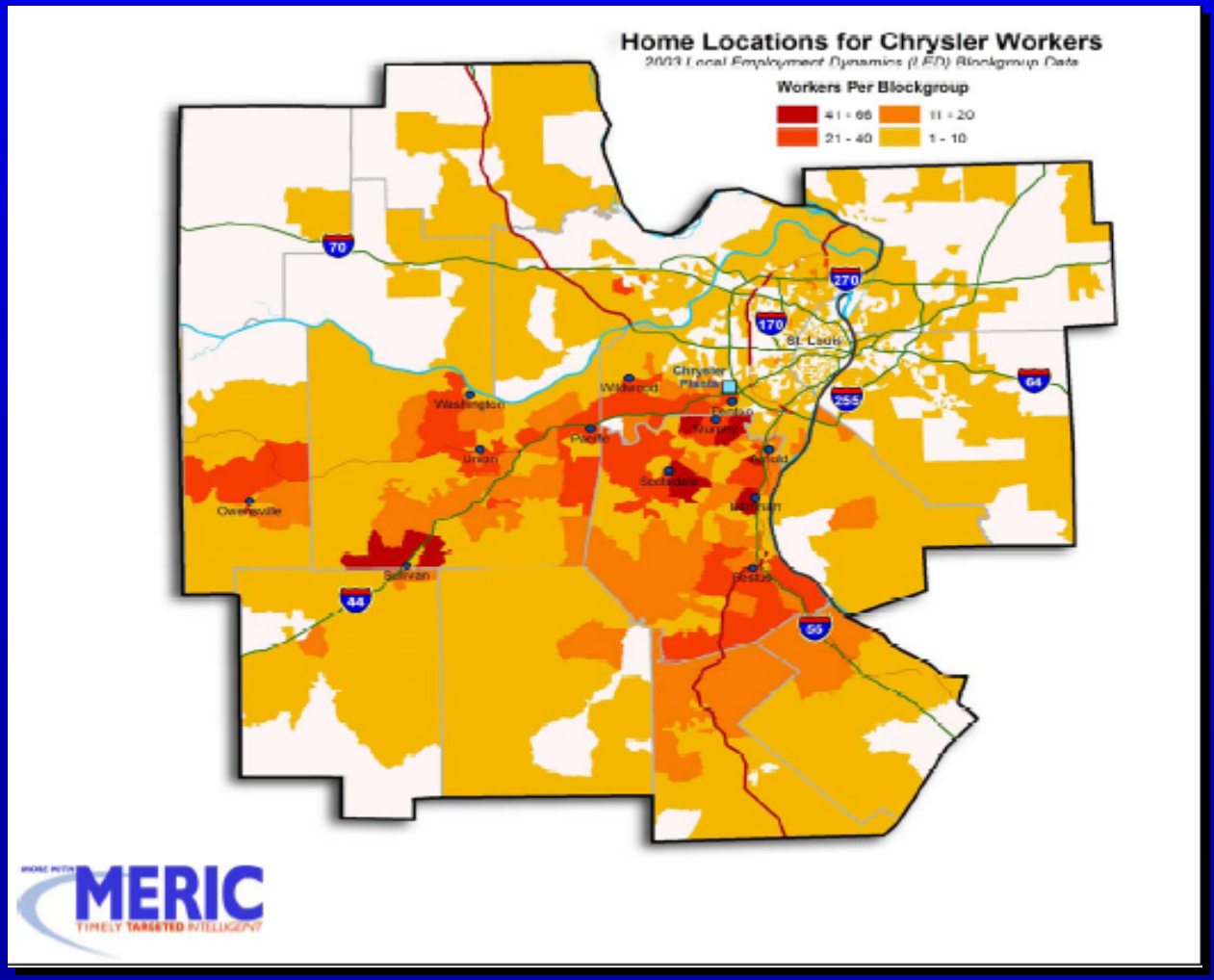
| Jobs by Earnings Paid | 2006 Count | 2006 Share |
|---|---|---|
| $1,200 per month or less | 1,151,809 | 29.9% |
| $1,201 to $3,400 per month | 1,607,250 | 41.7% |
| More than $3,400 per month | 1,092,703 | 28.4% |

| Jobs by Industry Type (2-digit NAICS) | 2006 Count | 2006 Share |
|---|---|---|
| Agriculture, Forestry, Fishing and Hunting | 27,209 | 0.7% |
| Mining, Quarrying, and Oil and Gas Extraction | 2,960 | 0.1% |
| Utilities | 20,313 | 0.5% |
| Construction | 250,366 | 6.5% |
| Manufacturing | 432,164 | 11.2% |
| Wholesale Trade | 156,254 | 4.1% |
| Retail Trade | 484,900 | 12.6% |
| Transportation and Warehousing | 112,670 | 2.9% |
| Information | 79,120 | 2.1% |
| Finance and Insurance | 124,910 | 3.2% |
| Real Estate and Rental and Leasing | 65,712 | 1.7% |
| Professional, Scientific, and Technical Services | 201,509 | 5.2% |
| Management of Companies and Enterprises | 66,222 | 1.7% |
| Administration & Support, Waste Management and Remediation | 237,477 | 6.2% |
| Educational Services | 397,620 | 10.3% |
| Health Care and Social Assistance | 461,333 | 12.0% |
| Arts, Entertainment, and Recreation | 58,201 | 1.5% |
| Accommodation and Food Services | 350,065 | 9.1% |
| Other Services (excluding Public Administration) | 118,621 | 3.1% |
| Public Administration | 204,132 | 5.3% |

**Work Area Profile Map 2006**

- **Shows where workers employed in the selection area work**
- **Projected path of Hanna based on NWS data**
- **Plume selection from 20 miles to 150 miles**
- **Approx. 3.9 million jobs in this selection**

# Mapping the Impact of Potential Plant Layoffs



# Local Employment Dynamics (LED) Partnership

## Partnership between 50 states and territories

- Newest partners = USVI, Puerto Rico
- In process of joining = CT
- Not in partnership = MA, NH*

## Data Sharing

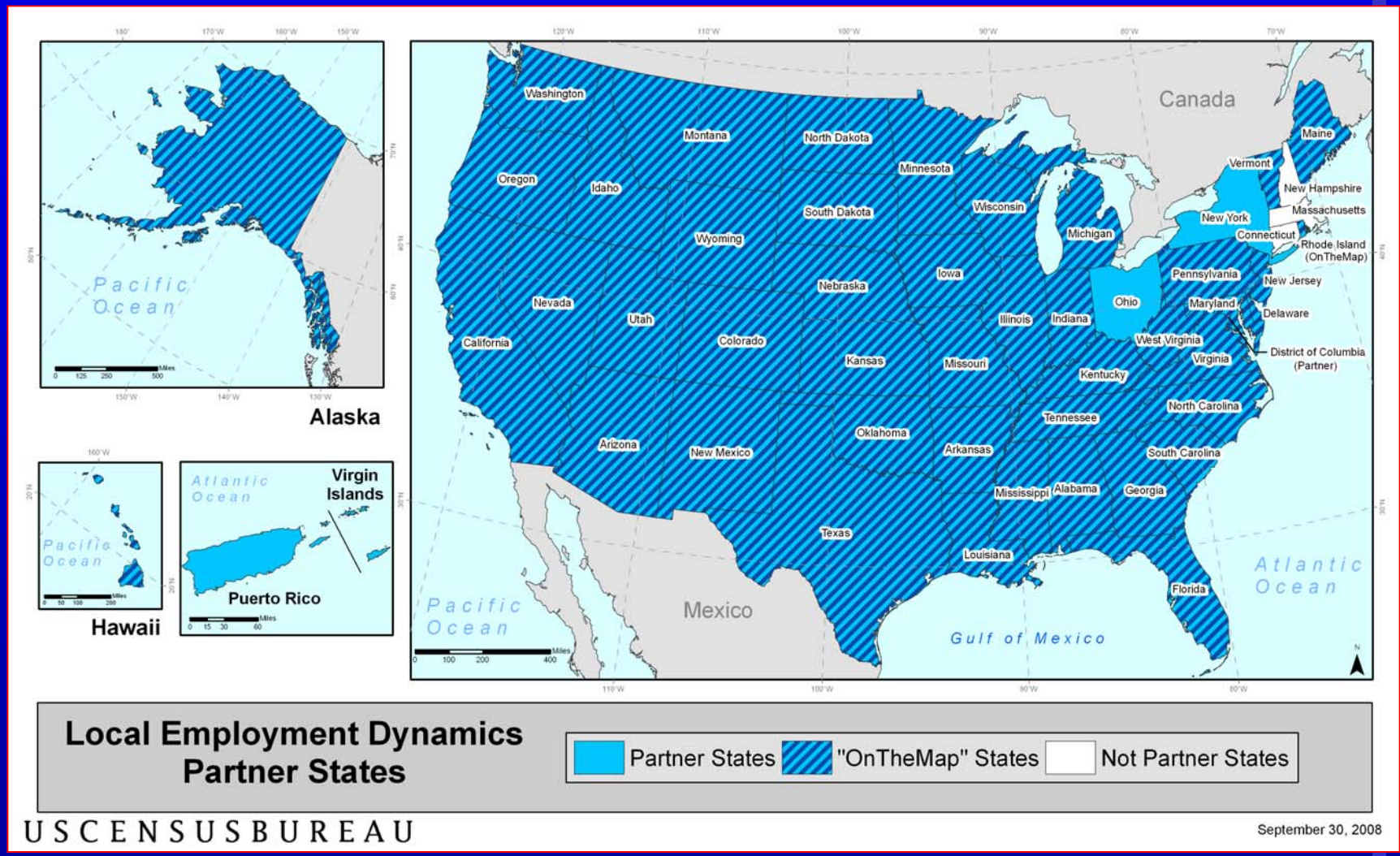
- Local knowledge
- Comparable data for all states, counties, regions, WIAs

## Innovative and Cost-Effective

- Uses *existing* data
- Creates *new* data products

**requires legislative change*

# States in LED Partnership



# www.census.gov

Click on Local Employment Dynamics

Or click on Data Tools

Or use the url: http://lehd.did.census.gov

# Local Employment Dynamics @ http://lehd.did.census.gov

U.S. Census Bureau

Longitudinal Employer-Household Dynamics

Home | Local Employment Dynamics | Data Tools | Research | Library | About Us

Site Map | Feedback | Ask Census

Print

Search

## QUICK LINKS

- **Tools**
  - OnTheMap Version 3 (Help)
  - QWI Online (Help)
  - Industry Focus
  - Older Worker Profiles
  - CED HotReport
- **Learning**
  - e-Learning
  - Webinars
  - Workshops
  - In Action
  - Reading
  - Classes
- **Partnership**
  - State Partners
  - Partners Only
  - Save the Date
- **Data Download**
  - VirtualRDC
  - State Only

## WHAT'S NEW?

09/29/08: Release of New Mexico Older Worker Profile
09/23/08: Release of Oregon Older Worker Profile
09/15/08: Puerto Rico Joins LED
09/11/08: Release of OnTheMap Version 3.1
09/08/08: Release of Montana Older Worker Profile

[more...]

Click here to send an email to join the OnTheMap listserv.

## Q&A

- What is LEHD?
- What is LED?
- What is the difference between LEHD and LED?
- What are the QWI?

[more...]

### OnTheMap Version 3 Webinar

Date: September 17, 2008
Estimated attendees: 273

Download recorded version here.
Download presentation slides here.
Download transcript here.

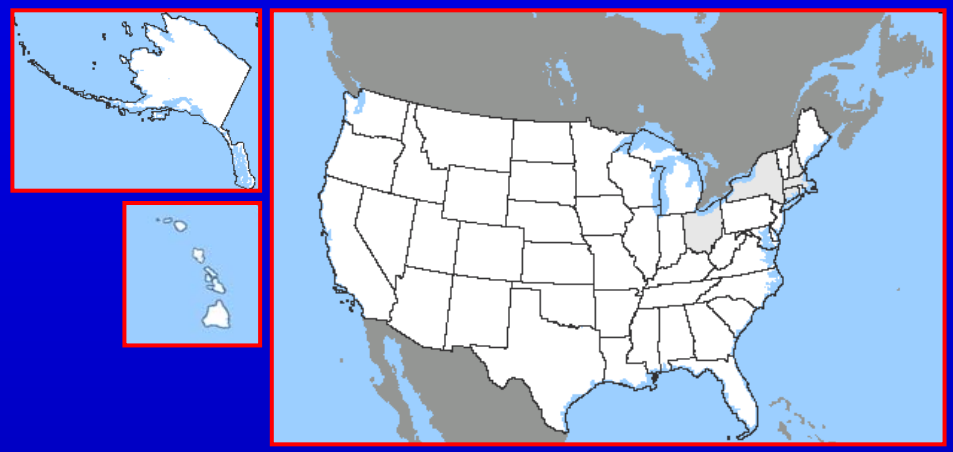
A registered account with http://www.workforce3one.org/ is required for the download, but there is no cost to register.

OnTheMap is supported by the Employment and Training Administration (ETA) and the state partners under the Local Employment Dynamics (LED) partnership with the U.S. Census Bureau.

## DID YOU KNOW?

...that of the industries in **New Mexico** that employed more than 500 workers 65 years and older in 2002, the highest average monthly earnings were from engineering, accounting and research ($4,157)?

# New and More Powerful
## *OnTheMap*



Version 1 (2006)

Version 2 (2007)

Version 3 (2008):

- 45 States
- 5 Years of Data (2002-2006)
- New User Interface
- Segmented Data (age, income, industry clusters)
- Improved Analyses/Maps/Reports

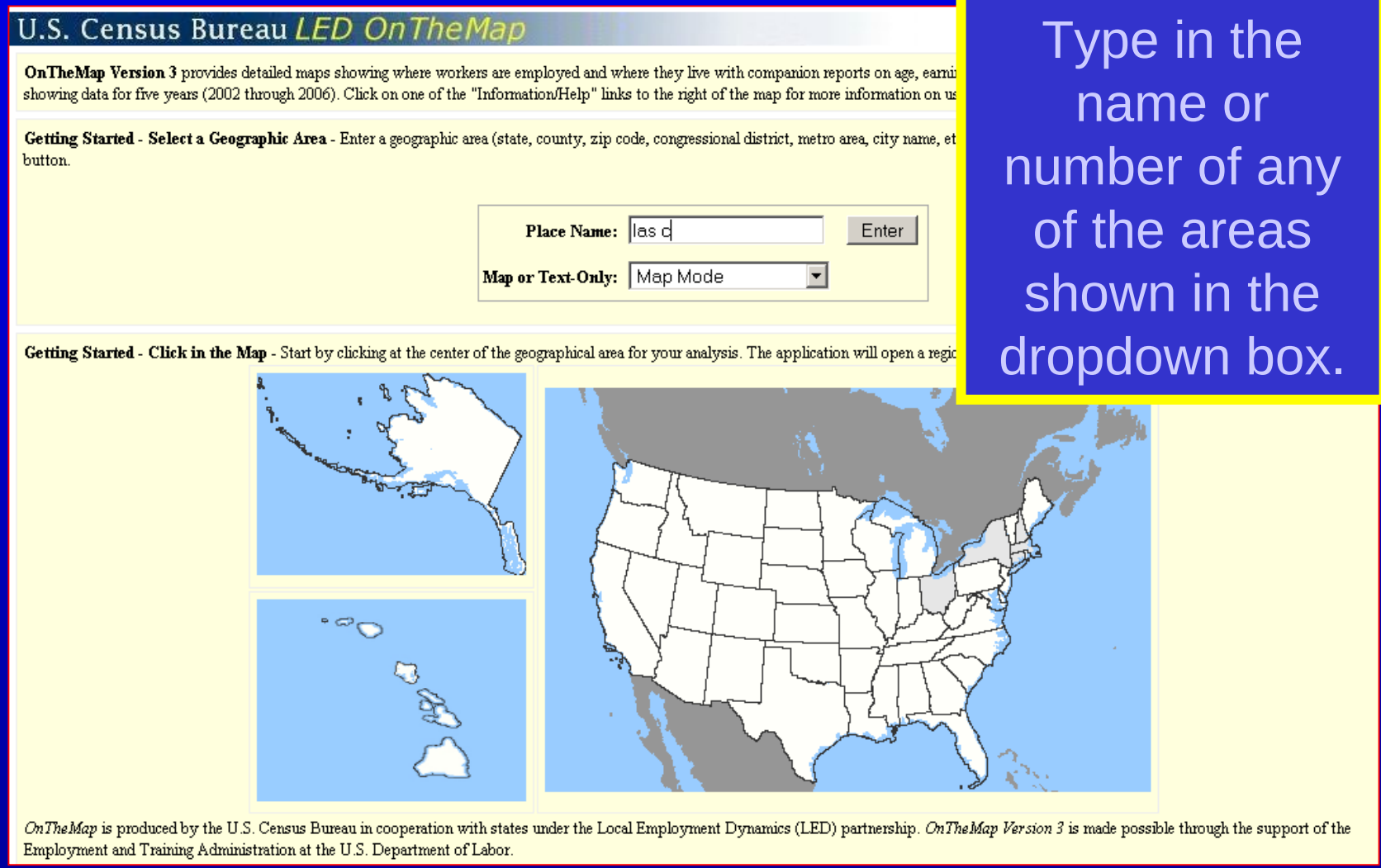
# More Advances in OTM Version 3

- Search names (even ZIP codes)
- Easier zoom & pan
- 4 standard steps for all analyses
- New Area Profile map overlays
- Better area selection tools
- More geographic report choices (“roll ups”)
- Animation of point/thermal overlays

# 5 Steps for Creating OTM Maps and Reports

1. Define Analytical Question
2. Search for Name/Pan & Zoom in Map
3. Turn on/off Geographic Layers & Labels
4. Create Analysis
5. View, Save or Print the Map and Report

# Selecting Your Basic Geography



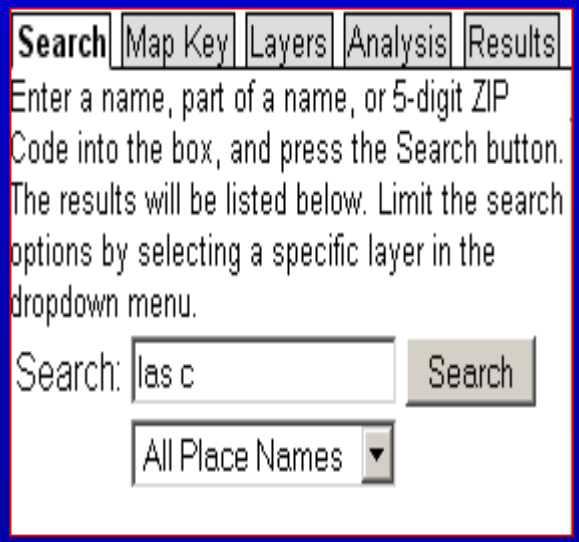

Type in the name or number of any of the areas shown in the dropdown box.

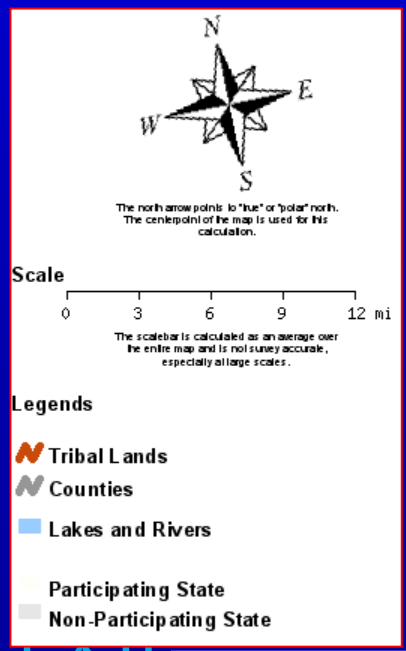
# The Control Panel

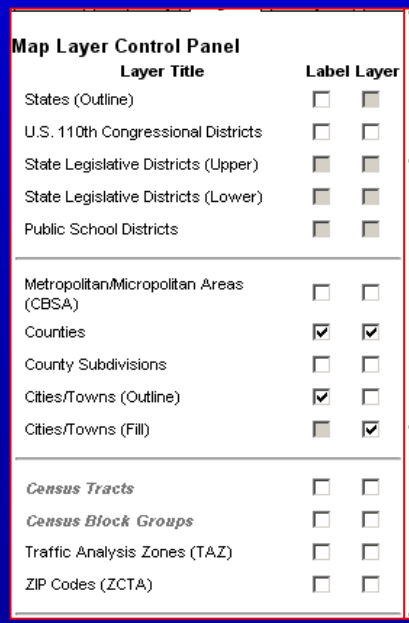
Search = Find Your Area

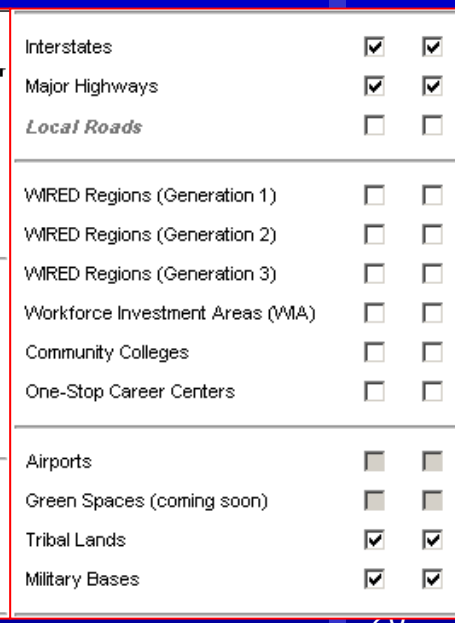
Map Key = Legend, Scale

Layers = Add/Remove Map Features



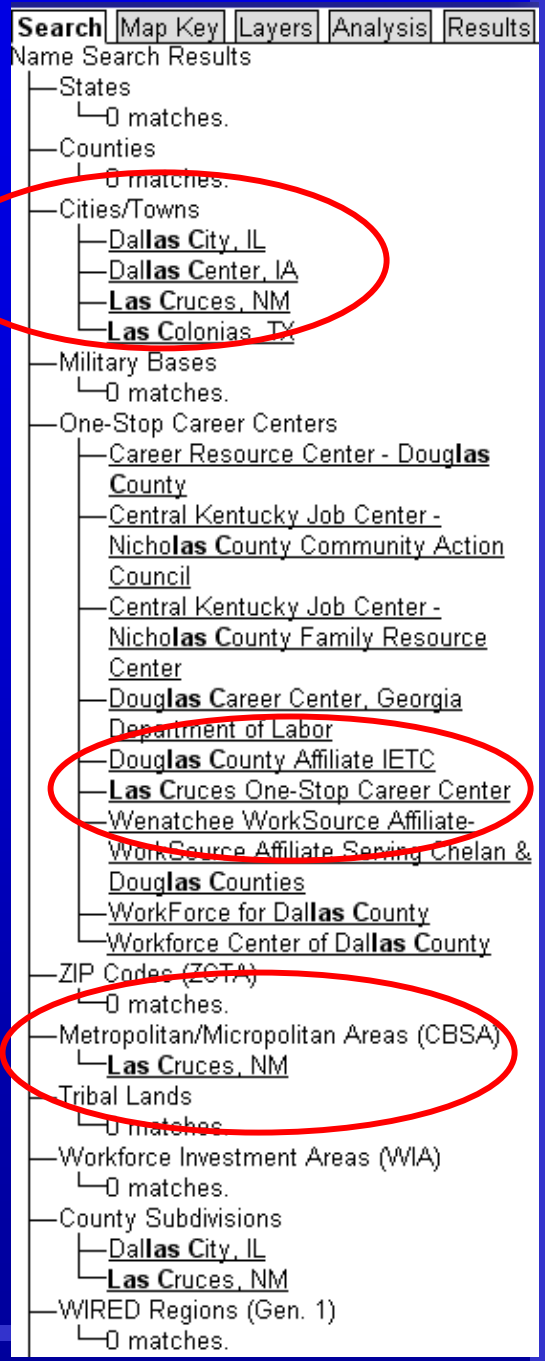
# Type “Las C” in Search

Search | Map Key | Layers | Analysis | Results

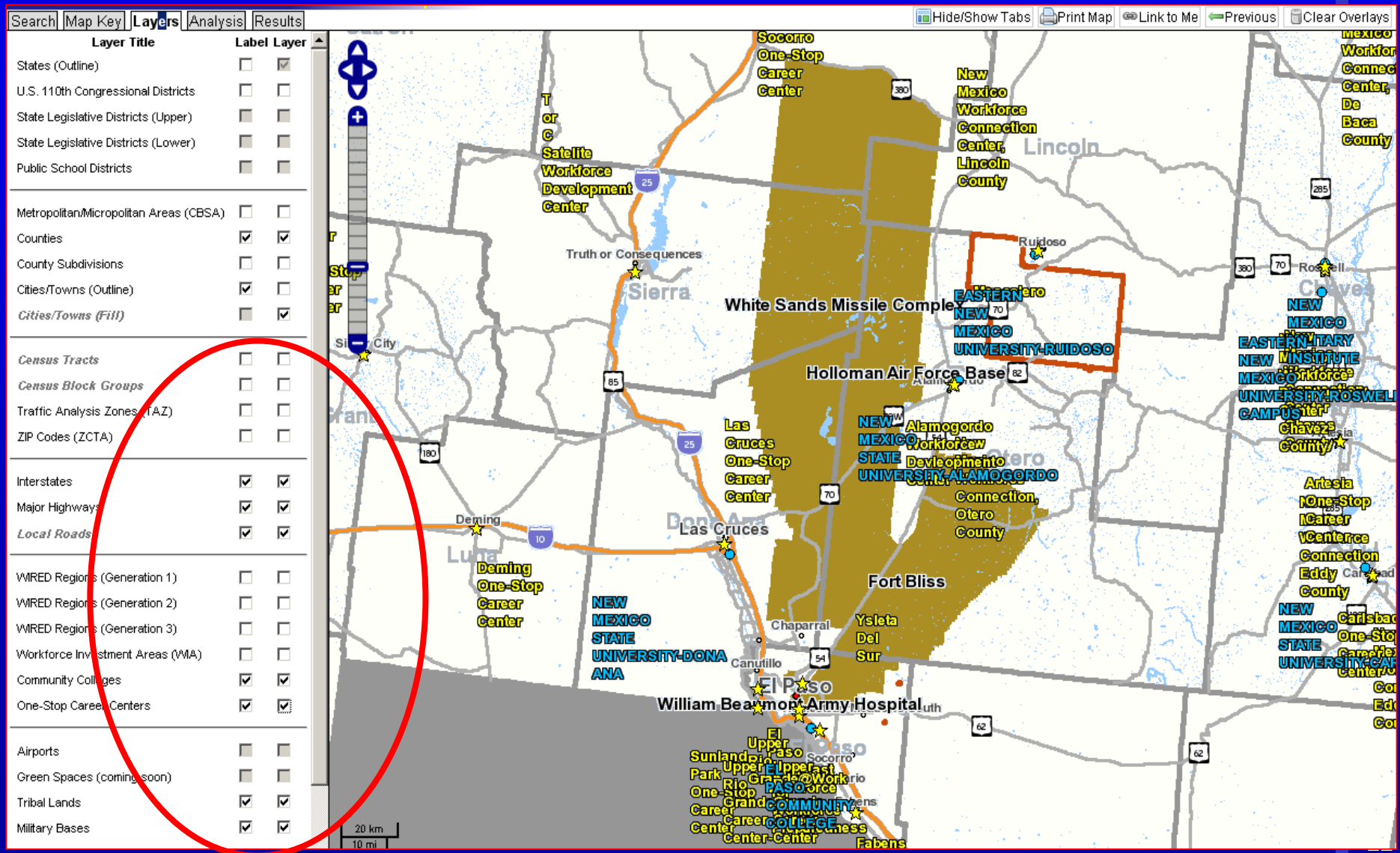
Enter a name, part of a name, or 5-digit ZIP Code into the box, and press the Search button. The results will be listed below. Limit the search options by selecting a specific layer in the dropdown menu.

Search: las c [Search]

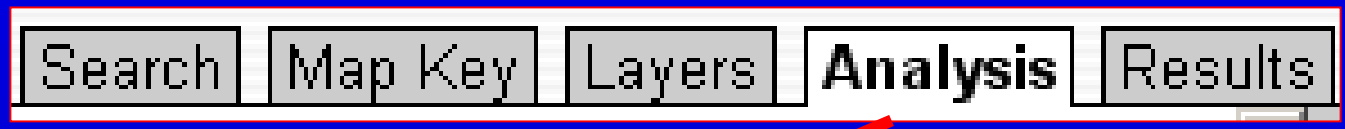
[All Place Names]



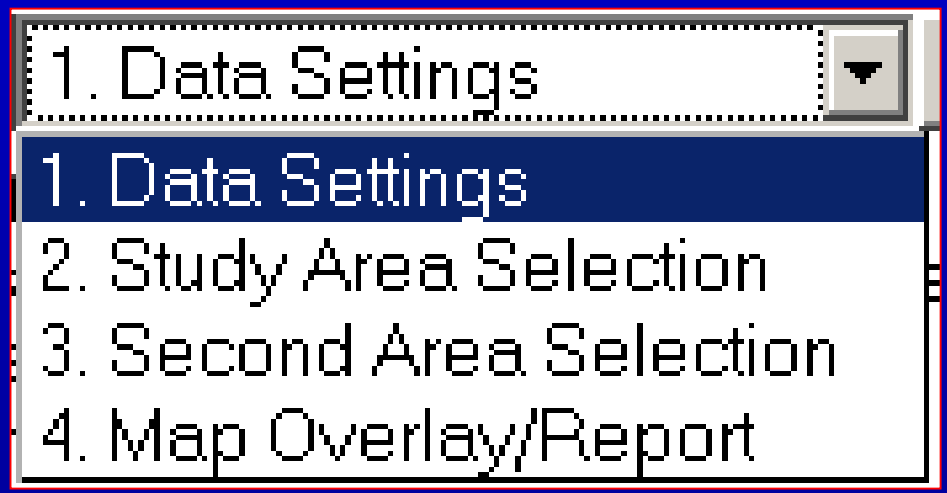
# Removing the Clutter (Layers)



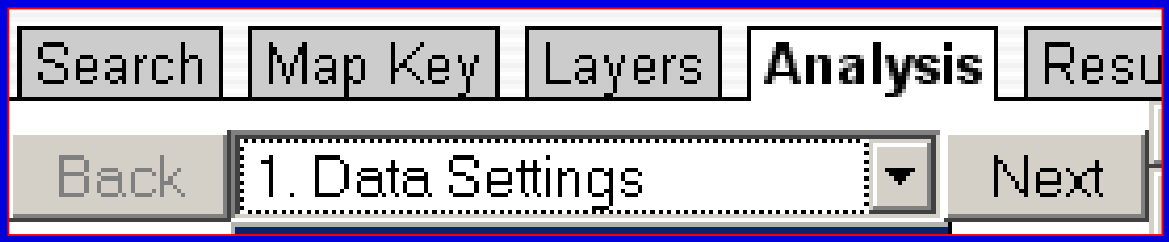
# The Control Panel: Setting Your Choices




Analysis = Select Data, Select Area(s), Set Map/Report Type



# Step 1. Data Settings

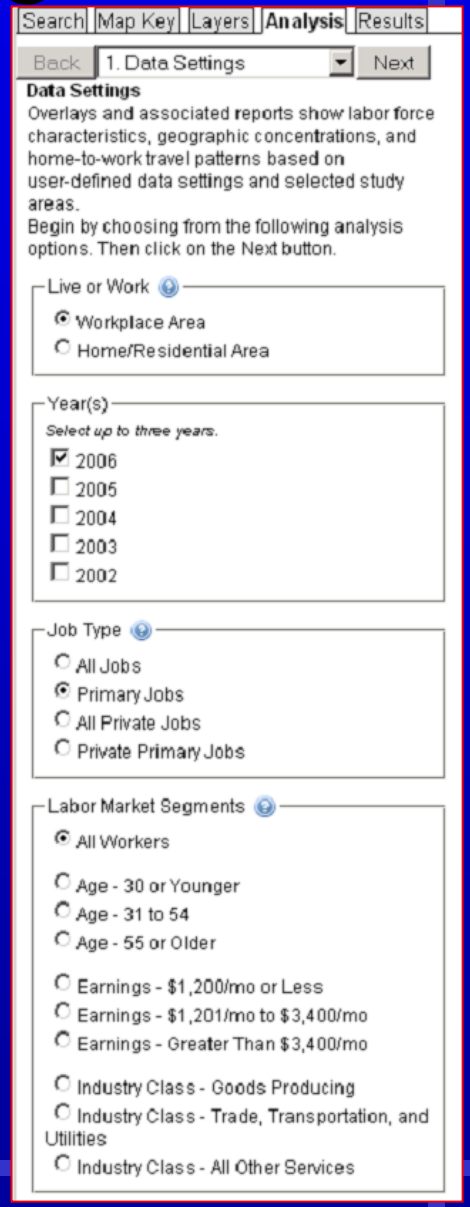



Live or Work

Year(s)

Job Type

Labor Market Segments

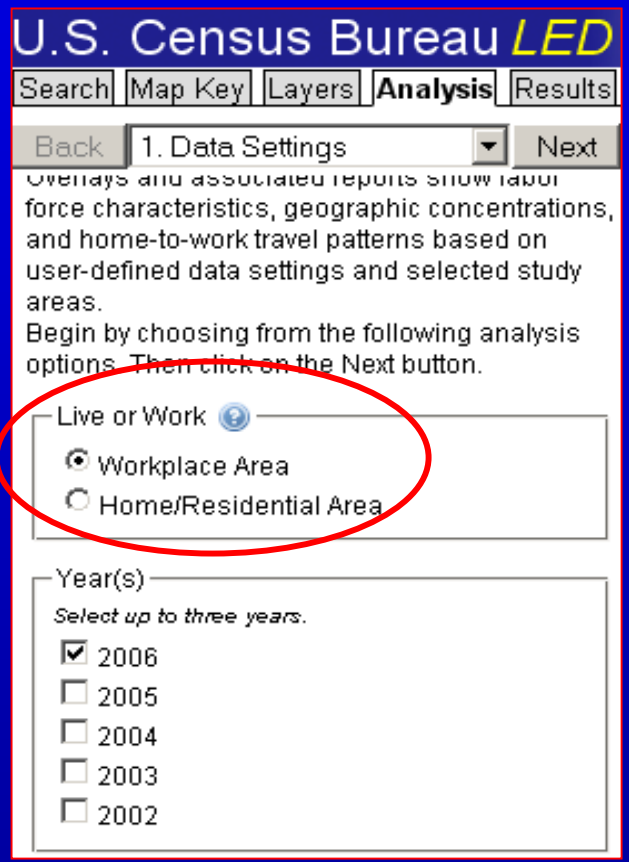


# Home/Residential Area or Workplace Area

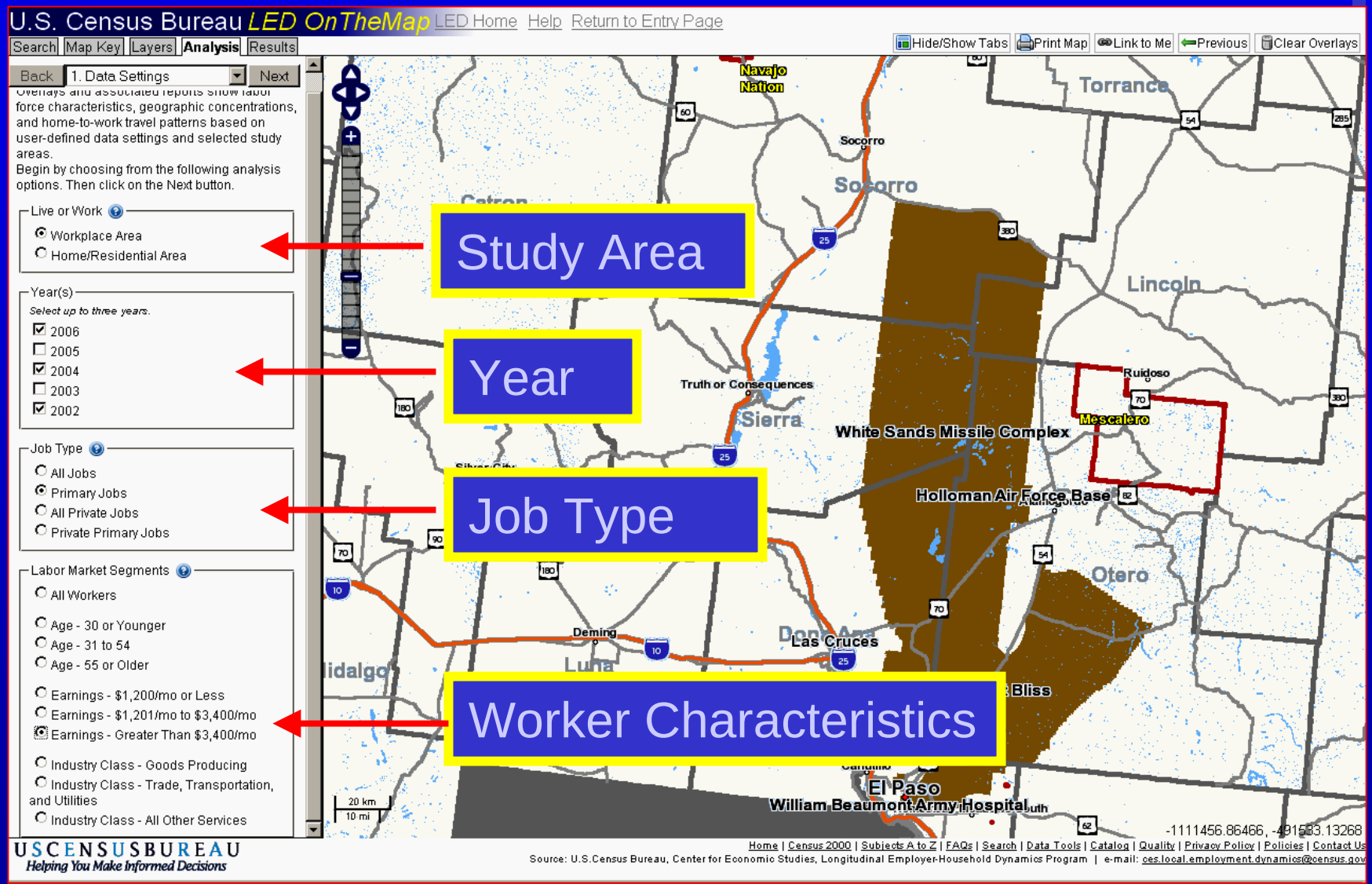
**Home Area** --
Where workers live

**Workplace Area** --
Where workers work

Live or Work limits report options



# Where, When, Which, Who



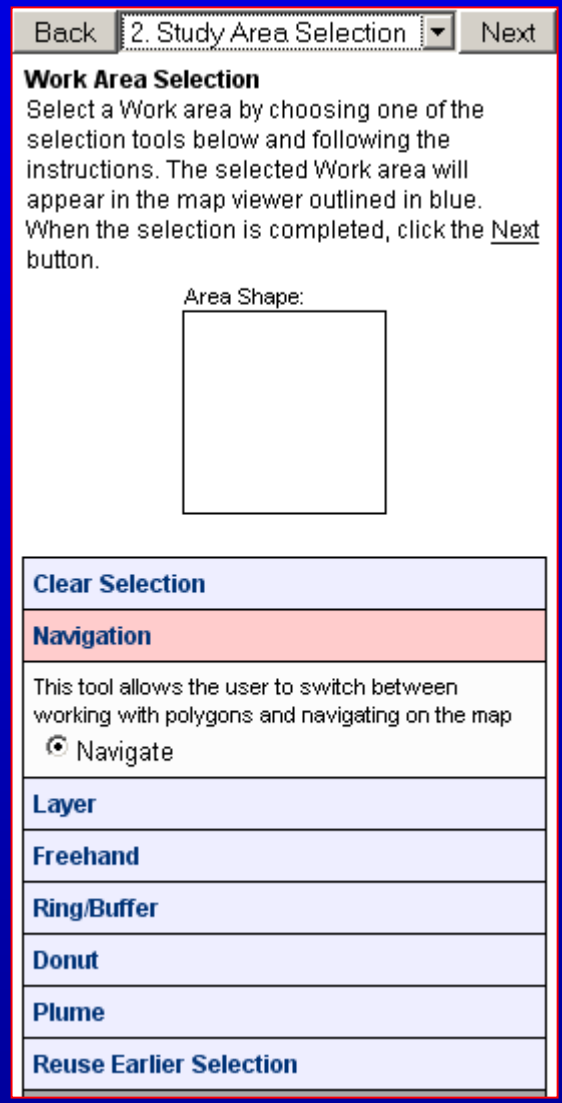
# Step 2. Study Area Selection

Select Study Area by:

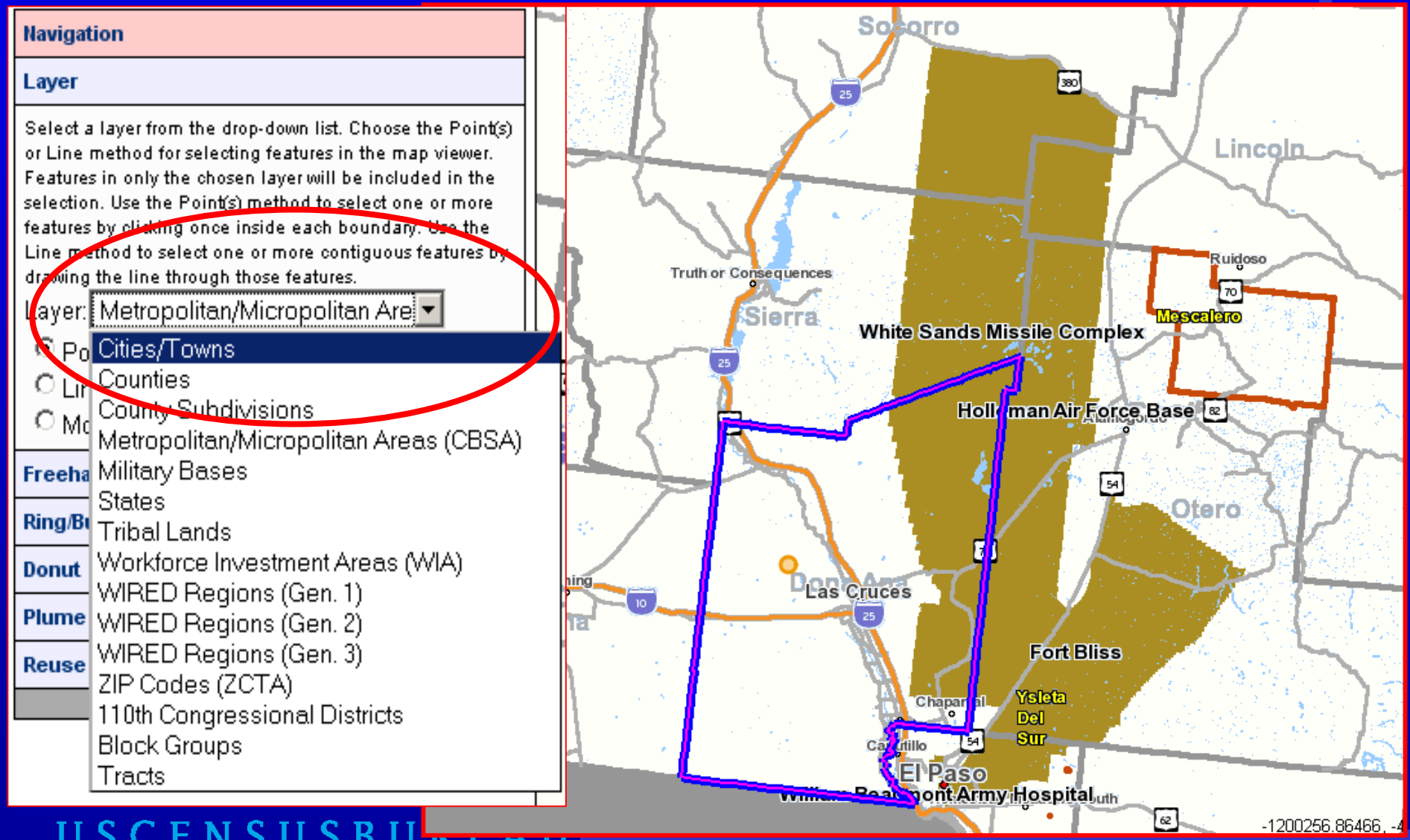
- Layer **(City, County, WIA, ZIP Code)**
- Freehand
- Ring/Buffer, etc.

*New Features!*

- Donuts, Plumes
- Multiple Selection
- Editing of Selection



# Selecting by Layer



# Freehand Selection and Edit Option

**Clear Selection**

Are you sure you want to clear this selection area?

No Yes

**Freehand**

Draw a freehand polygon by dragging your mouse on the map.

- Polygon
- Edit Shape (Click on the polygon to begin and end editing.)

**Navigation**

**Layer**

**Freehand**

Draw a freehand polygon by dragging your mouse on the map.

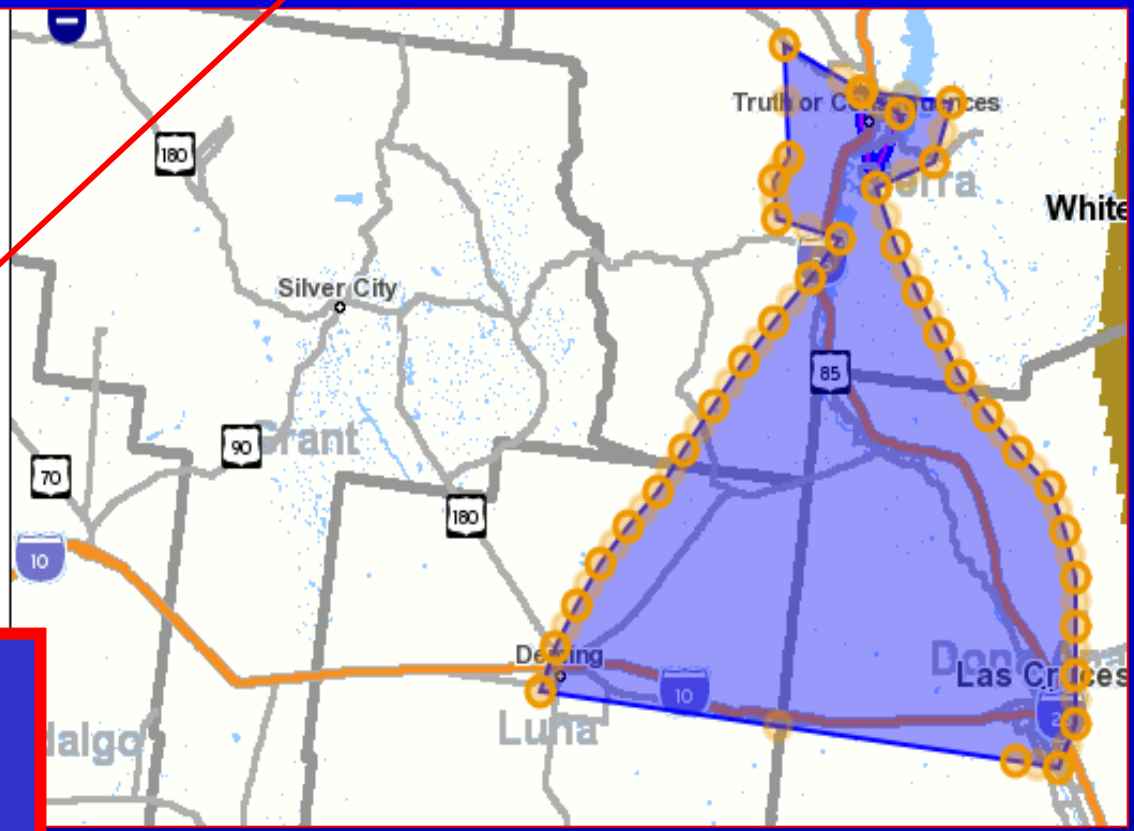
- Polygon
- Edit Shape (Click on the polygon to begin and end editing.)

**Ring/Buffer**

**Donut**

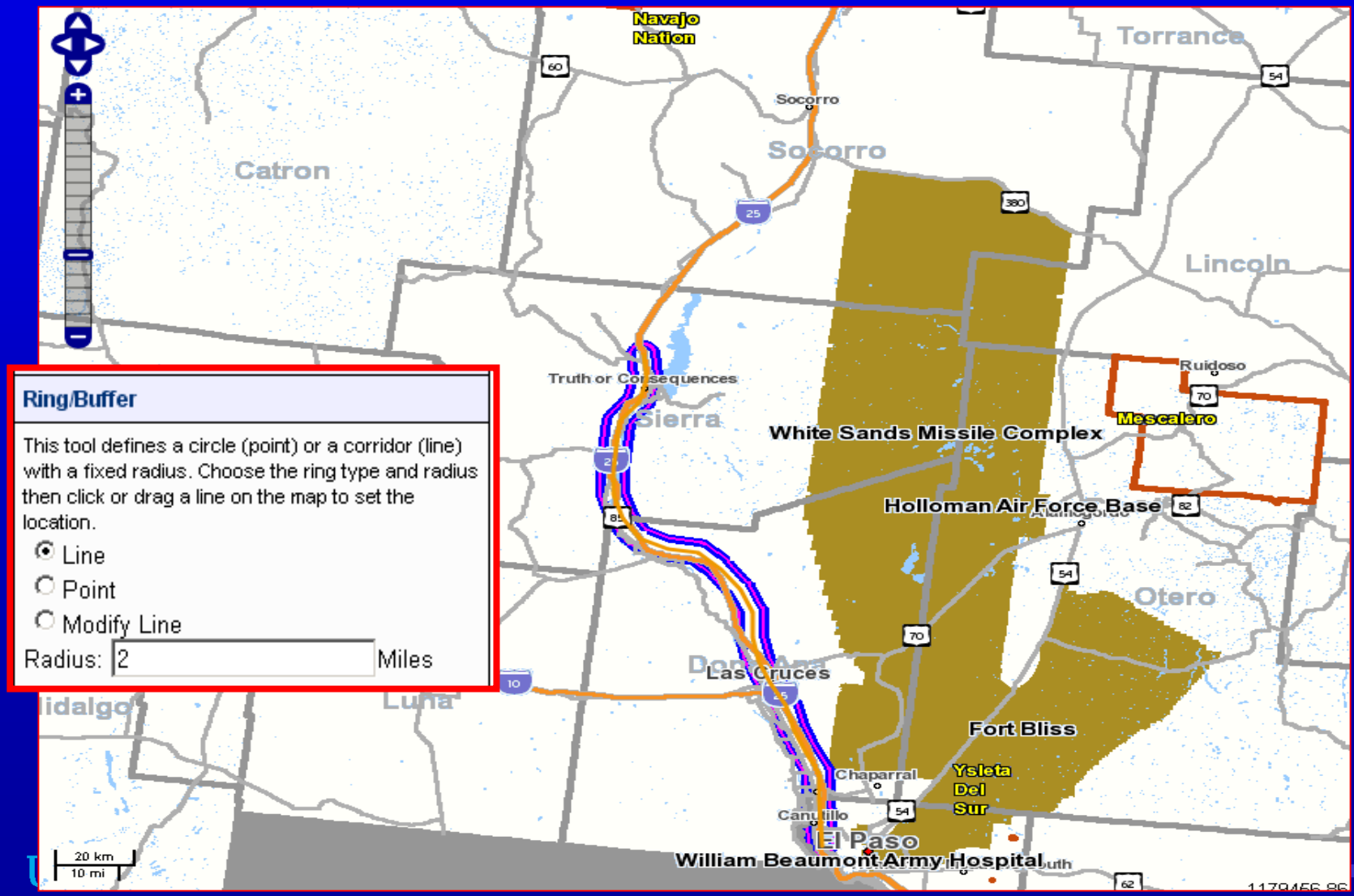
**Plume**

**Reuse Earlier Selection**




*New Feature!*
Modify freehand, buffer, plume, etc.

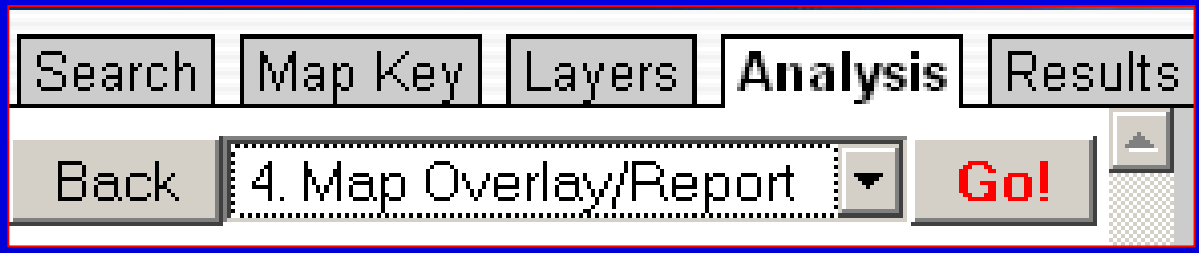
# Buffer Selection: Set Width of Corridor & Draw Line



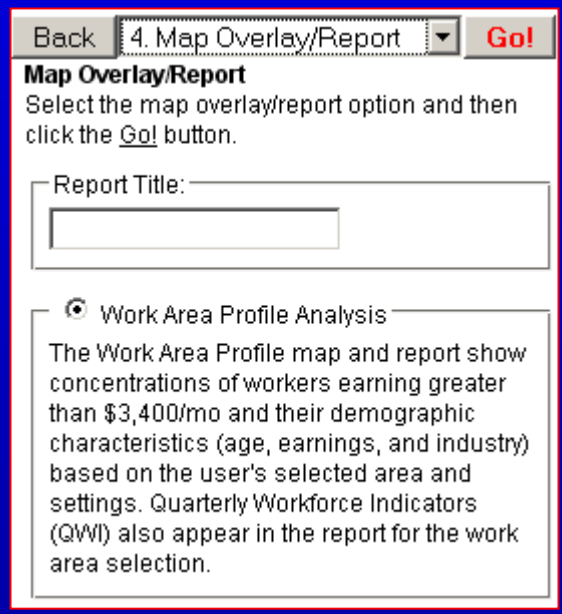
# Step 3: Advanced Area Selection (optional)

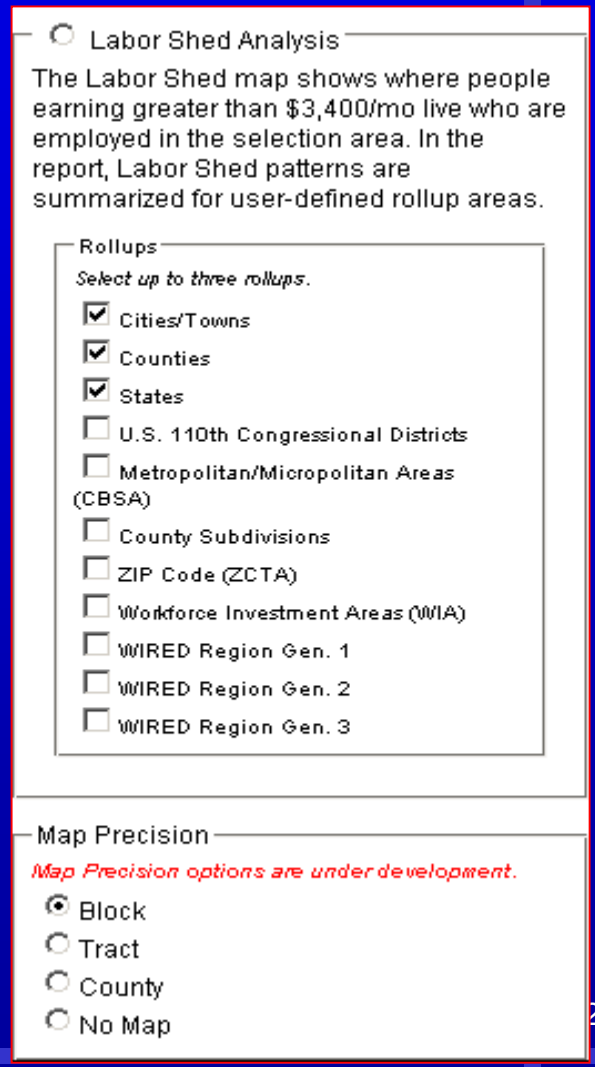
- Not covered today
- However, the selection tools are the SAME as in Step 2
- Allows for:
  - Paired Areas, or
  - Complex Modifications to First Area Selection
- Note: Paired area selection can change available data items in reports

# 4. Choosing Map and Report Type




Map/Report = Profile of workers in selected area or travel patterns of workers



# Key Definitions for Analysis

## Area Profile

- Shows Work or Home locations *within* the selection area only.

## Shed

- Show where workers are going:
  - Labor Shed shows workers going Home
  - Commute Shed shows workers going to Work

## Display

- Points represent each Census Block with jobs
- Thermals represent density- average # per square mile

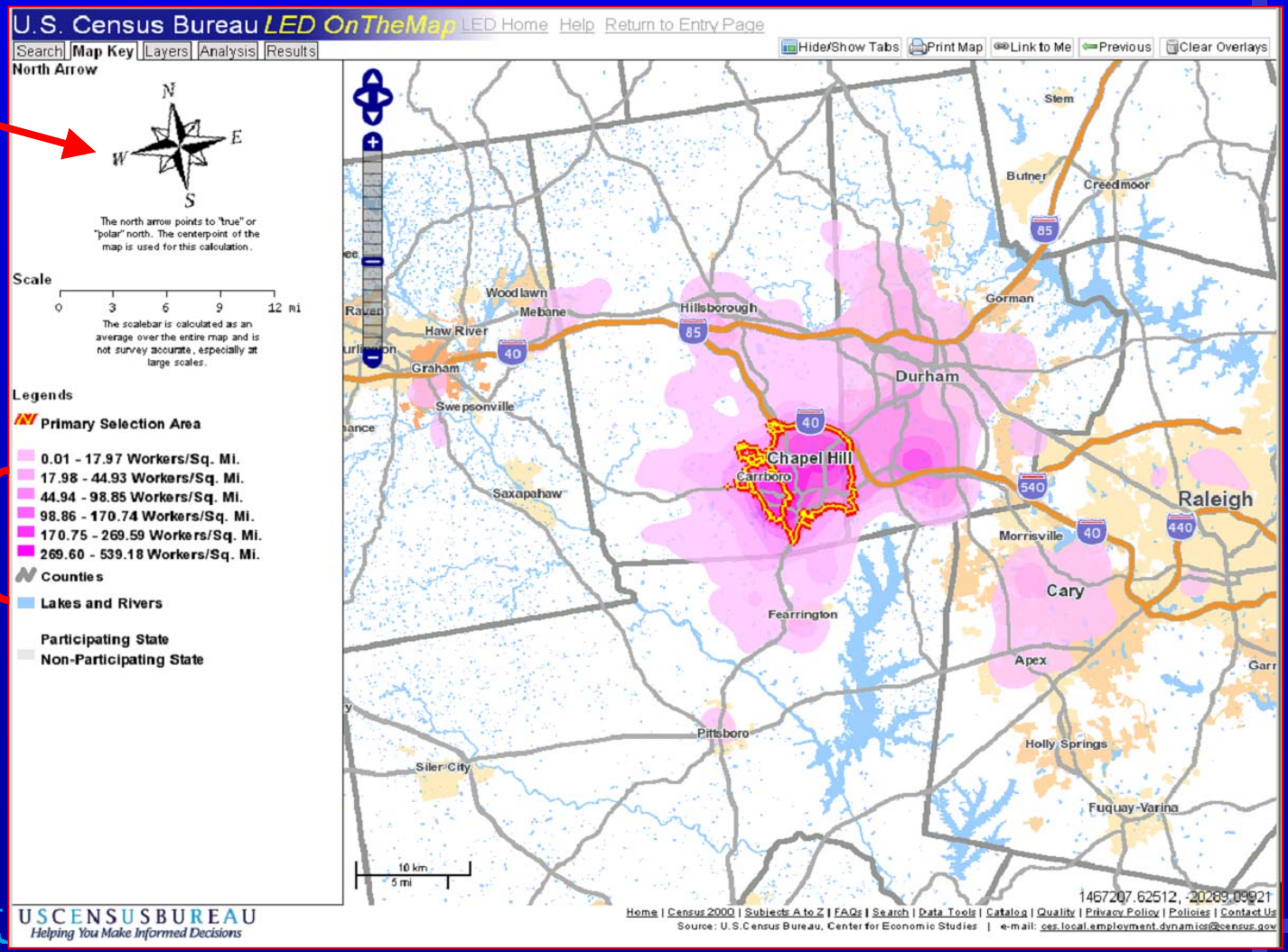
# Analysis Type: Labor Shed (Thermals)

Where Workers Live who are Employed in Chapel Hill & Carrboro, NC

North Arrow

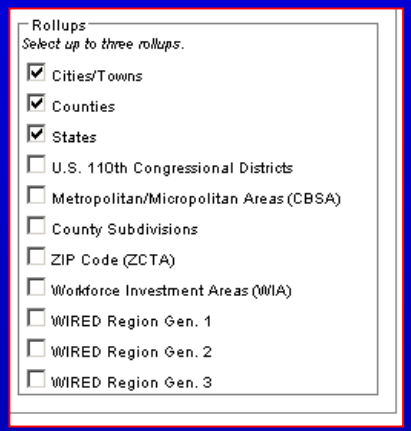
Scale Bar

Thermal Key



# Labor Shed Report

- Reports home location at 3 selected geographic levels (aka, rollups)




**Labor Shed Report -- Where Workers Live who are Employed in the**

| Primary Jobs Total | 2006 | | 2004 | |
|---|---|---|---|---|
| | Count | Share | Count | Share |
| Primary Jobs Total | 13,711 | 100.0% | 11,642 | 100.0% |

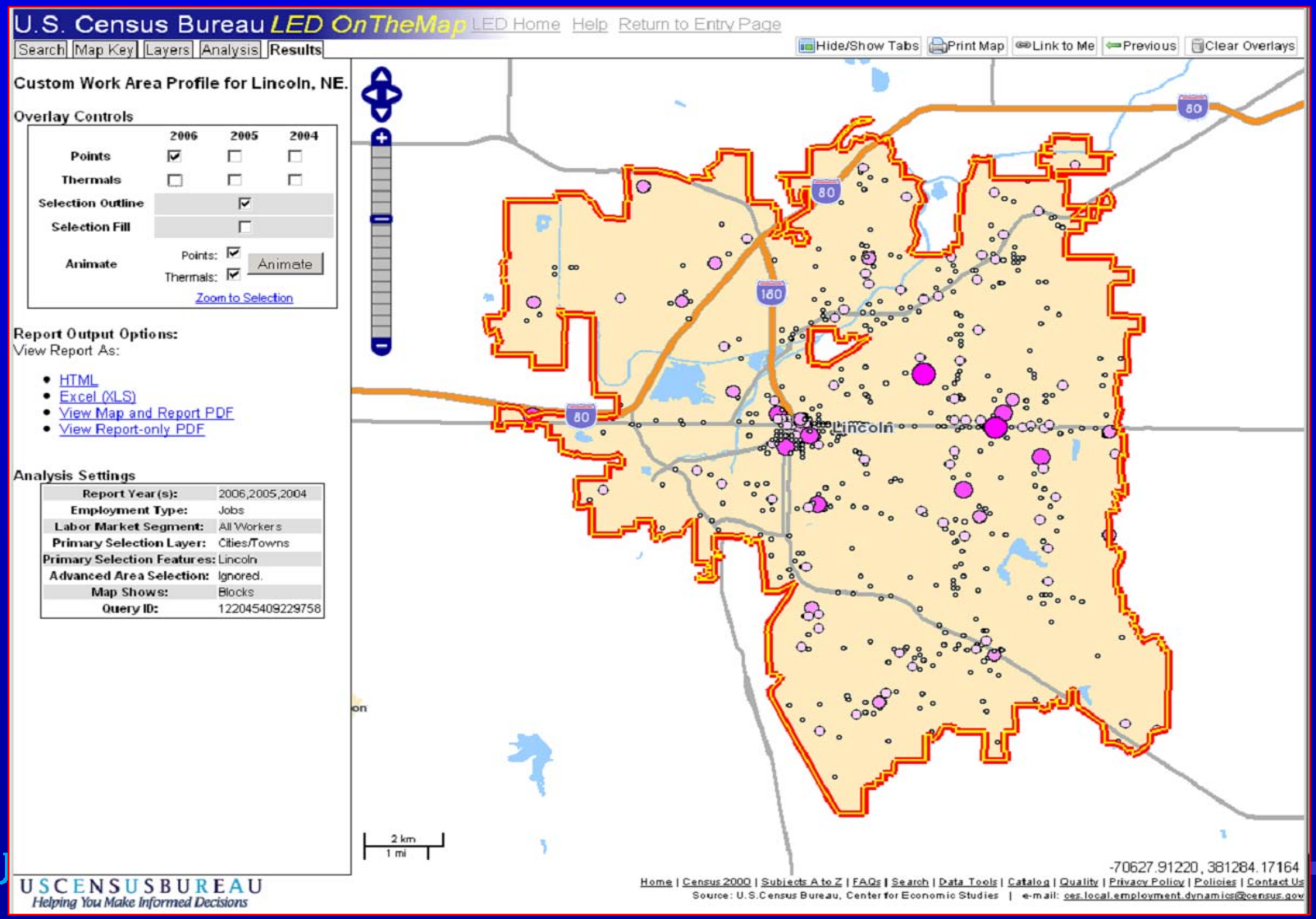
| Job counts in Cities/Towns Where Workers Live | 2006 | | 2004 | |
|---|---|---|---|---|
| | Count | Share | Count | Share |
| Las Cruces, New Mexico | 6,366 | 46.4% | 5,209 | 44.7% |
| El Paso, Texas | 1,197 | 8.7% | 1,088 | 9.3% |
| Albuquerque, New Mexico | 327 | 2.4% | 230 | 2.0% |
| Alamogordo, New Mexico | 228 | 1.7% | 264 | 2.3% |
| Mesilla, New Mexico | 206 | 1.5% | 153 | 1.3% |
| Radium Springs, New Mexico | 170 | 1.2% | 140 | 1.2% |
| Dona Ana, New Mexico | 162 | 1.2% | 126 | 1.1% |
| Santa Teresa, New Mexico | 61 | 0.4% | 61 | 0.5% |
| White Sands, New Mexico | 58 | 0.4% | 44 | 0.4% |
| Hurley, New Mexico | 57 | 0.4% | 77 | 0.7% |
| All Other Locations | 4,879 | 35.6% | 4,250 | 36.5% |

| Job counts in Counties Where Workers Live | 2006 | | 2004 | |
|---|---|---|---|---|
| | Count | Share | Count | Share |
| Dona Ana Co., New Mexico | 10,743 | 78.4% | 8,931 | 76.7% |
| El Paso Co., Texas | 1,331 | 9.7% | 1,266 | 10.9% |
| Otero Co., New Mexico | 449 | 3.3% | 489 | 4.2% |
| Bernalillo Co., New Mexico | 407 | 3.0% | 282 | 2.4% |

| Job counts in States Where Workers Live | 2006 | | | | | |
|---|---|---|---|---|---|---|
| | Count | Share | | | | |
| New Mexico | 12,280 | 89.6% | | | | |
| Texas | 1,336 | 9.7% | | | | |
| Puerto Rico | 69 | 0.5% | | | | |
| Michigan | 5 | 0.0% | | | | |
| Tennessee | 4 | 0.0% | 3 | 0.0% | 0 | 0.0% |
| All Other Locations | 17 | 0.1% | 45 | 0.4% | 35 | 0.3% |

# Analysis Type: Work Area Profile

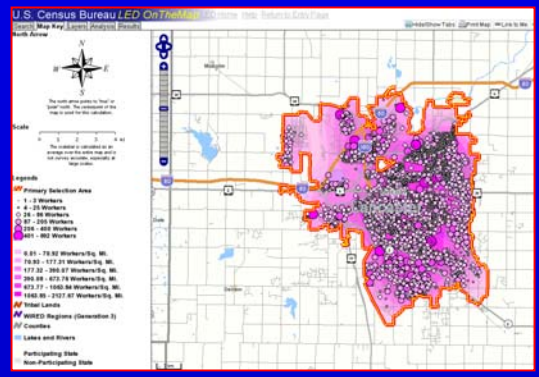
Where Workers are Employed within Lincoln, NE



# Area Profile Report

## Area Profile Report

- 3 Age categories
- 3 Earnings categories
- 3 Industry categories
- QWI (for Work Areas)



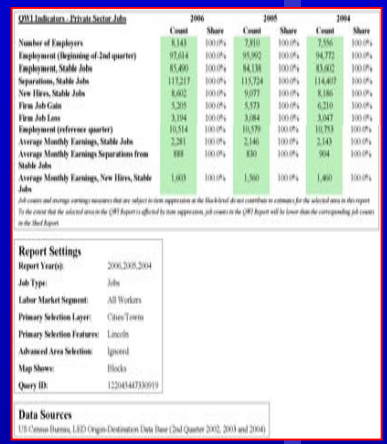

### Work Area Profile Report

| Total Jobs | 2006 | | 2005 | | 2004 | |
|---|---|---|---|---|---|---|
| | Count | Share | Count | Share | Count | Share |
| Total Jobs | 147,728 | 100.0% | 147,401 | 100.0% | 144,743 | 100.0% |

| Jobs by Worker Age | 2006 | | 2005 | | 2004 | |
|---|---|---|---|---|---|---|
| | Count | Share | Count | Share | Count | Share |
| Age 30 or younger | 46,506 | 31.5% | 46,870 | 31.8% | 46,542 | 32.2% |
| Age 31 to 54 | 77,214 | 52.3% | 77,972 | 52.9% | 77,201 | 53.3% |
| Age 55 or older | 24,008 | 16.3% | 22,559 | 15.3% | 21,000 | 14.5% |

| Jobs by Earnings Paid | 2006 | | 2005 | | 2004 | |
|---|---|---|---|---|---|---|
| | Count | Share | Count | Share | Count | Share |
| $1,200 per month or less | 44,416 | 30.1% | 44,867 | 30.4% | 45,205 | 31.2% |
| $1,201 to $3,400 per month | 60,979 | 41.3% | 63,822 | 43.3% | 62,387 | 43.1% |
| More than $3,400 per month | 42,333 | 28.7% | 38,712 | 26.3% | 37,151 | 25.7% |

| Jobs by Industry Type (2-digit NAICS) | 2006 | | 2005 | | 2004 | |
|---|---|---|---|---|---|---|
| | Count | Share | Count | Share | Count | Share |
| Agriculture, Forestry, Fishing and Hunting | 102 | 0.1% | 105 | 0.1% | 71 | 0.0% |
| Mining, Quarrying, and Oil and Gas Extraction | 5 | 0.0% | 3 | 0.0% | 4 | 0.0% |
| Utilities | 610 | 0.4% | 576 | 0.4% | 584 | 0.4% |
| Construction | 6,544 | 4.4% | 6,733 | 4.6% | 6,859 | 4.7% |
| Manufacturing | 12,420 | 8.4% | 12,373 | 8.4% | 12,258 | 8.5% |
| Wholesale Trade | 3,900 | 2.6% | 3,884 | 2.6% | 3,782 | 2.6% |
| Retail Trade | 15,792 | 10.7% | 15,963 | 10.8% | 15,910 | 11.0% |
| Transportation and Warehousing | 5,861 | 4.0% | 5,906 | 4.0% | 5,608 | 3.9% |
| Information | 2,859 | 1.9% | 3,185 | 2.2% | 3,468 | 2.4% |
| Finance and Insurance | 10,521 | 7.1% | 10,758 | 7.3% | 9,202 | 6.4% |
| Real Estate and Rental and Leasing | 1,684 | 1.1% | 1,769 | 1.2% | 1,901 | 1.3% |
| Professional, Scientific, and Technical Services | 8,629 | 5.8% | 8,272 | 5.6% | 8,119 | 5.6% |
| Management of Companies and Enterprises | 2,713 | 1.8% | 2,560 | 1.7% | 2,392 | 1.7% |
| Administration & Support, Waste Management and Remediation | 6,976 | 4.7% | 6,670 | 4.5% | 6,346 | 4.4% |
| Educational Services | 15,123 | 10.2% | 14,914 | 10.1% | 15,100 | 10.4% |
| Health Care and Social Assistance | 19,576 | 13.3% | 20,083 | 13.6% | 19,732 | 13.6% |
| Arts, Entertainment, and Recreation | 2,257 | 1.5% | 2,227 | 1.5% | 2,048 | 1.4% |
| Accommodation and Food Services | 12,641 | 8.6% | 12,394 | 8.4% | 12,453 | 8.6% |
| Other Services (excluding Public Administration) | 5,652 | 3.8% | 5,653 | 3.8% | 5,572 | 3.8% |
| Public Administration | 13,863 | 9.4% | 13,373 | 9.1% | 13,274 | 9.2% |



| QWI Indicators - Private Sector Jobs | 2006 | | 2005 | | 2004 | |
|---|---|---|---|---|---|---|
| | Count | Share | Count | Share | Count | Share |
| Number of Employers | 8,143 | 100.0% | 7,810 | 100.0% | 7,556 | 100.0% |
| Employment (Beginning-of-2nd quarter) | 97,614 | 100.0% | 95,992 | 100.0% | 94,772 | 100.0% |
| Employment, Stable Jobs | 85,490 | 100.0% | 84,138 | 100.0% | 83,602 | 100.0% |
| Separations, Stable Jobs | 117,217 | 100.0% | 115,724 | 100.0% | 114,407 | 100.0% |
| New Hires, Stable Jobs | 8,402 | 100.0% | 9,077 | 100.0% | 8,186 | 100.0% |
| Firm Job Gain | 5,205 | 100.0% | 5,573 | 100.0% | 6,210 | 100.0% |
| Firm Job Loss | 3,194 | 100.0% | 3,084 | 100.0% | 3,047 | 100.0% |
| Employment (reference quarter) | 10,514 | 100.0% | 10,579 | 100.0% | 10,753 | 100.0% |
| Average Monthly Earnings, Stable Jobs | 2,281 | 100.0% | 2,146 | 100.0% | 2,143 | 100.0% |
| Average Monthly Earnings Separations from Stable Jobs | 888 | 100.0% | 880 | 100.0% | 904 | 100.0% |
| Average Monthly Earnings, New Hires, Stable Jobs | 1,603 | 100.0% | 1,560 | 100.0% | 1,460 | 100.0% |

Job counts and average earnings measures that are subject to term suppression at the Block-level do not contribute to estimates for the selected area in this report. To the extent that the selected area in the QWI Report is affected by term suppression, job counts in the QWI Report will be lower than the corresponding job counts in the Shed Report.

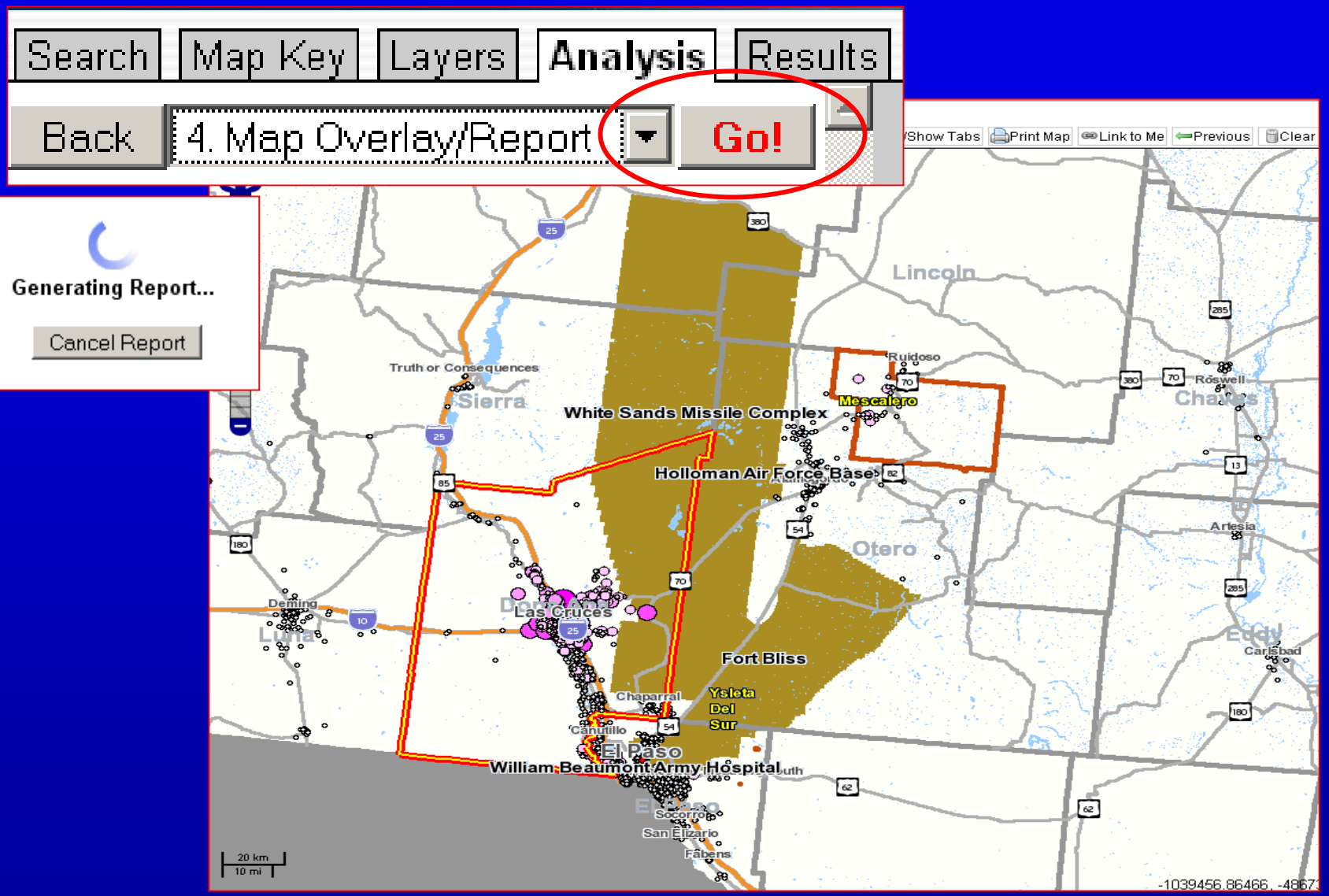
**Report Settings**

| | |
|---|---|
| Report Year(s): | 2006,2005,2004 |
| Job Type: | Jobs |
| Labor Market Segment: | All Workers |
| Primary Selection Layer: | Cities/Towns |
| Primary Selection Feature: | Lincoln |
| Advanced Area Selection: | Ignored |
| Map Shows: | Blocks |
| Query ID: | 1220454473309 19 |

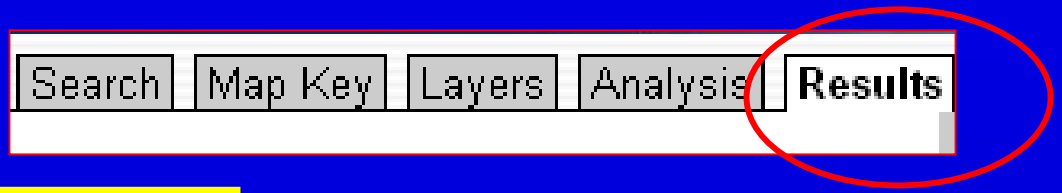
**Data Sources**

US Census Bureau, LED Origin-Destination Data Base (2nd Quarter 2002, 2003 and 2004)

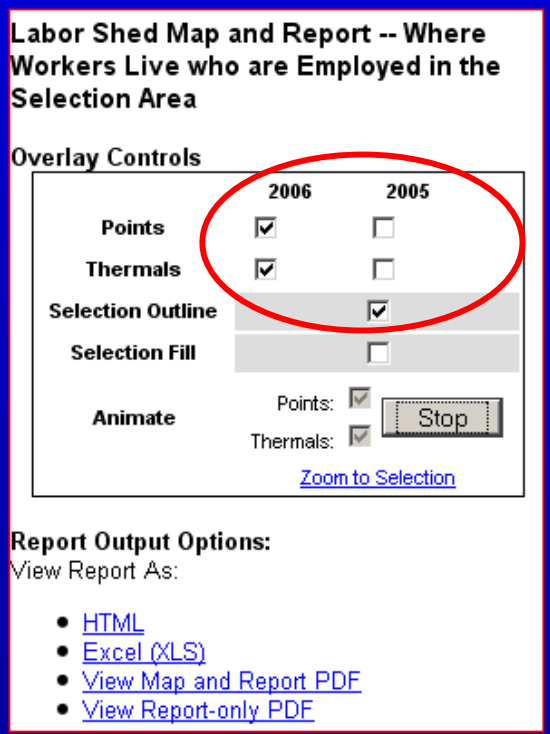
# The Go Button

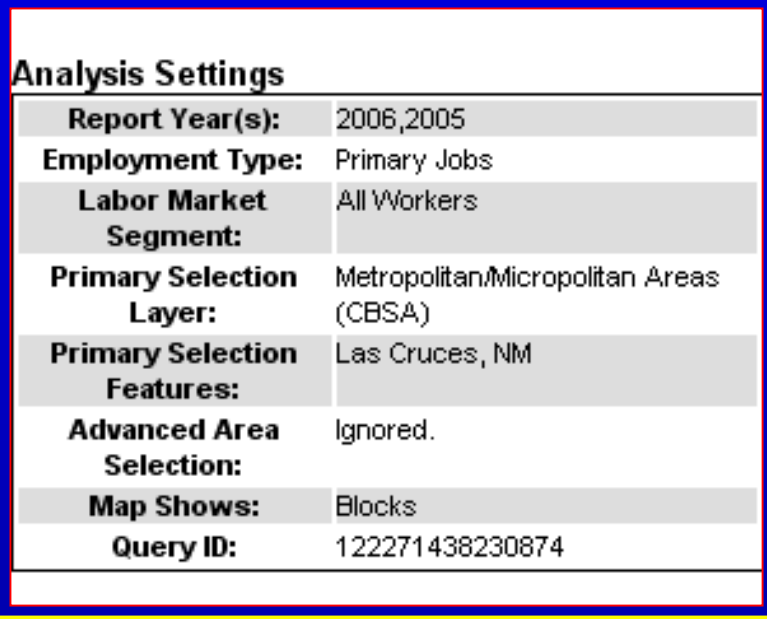


# The Results Tab




Animate with Points and/or Thermals



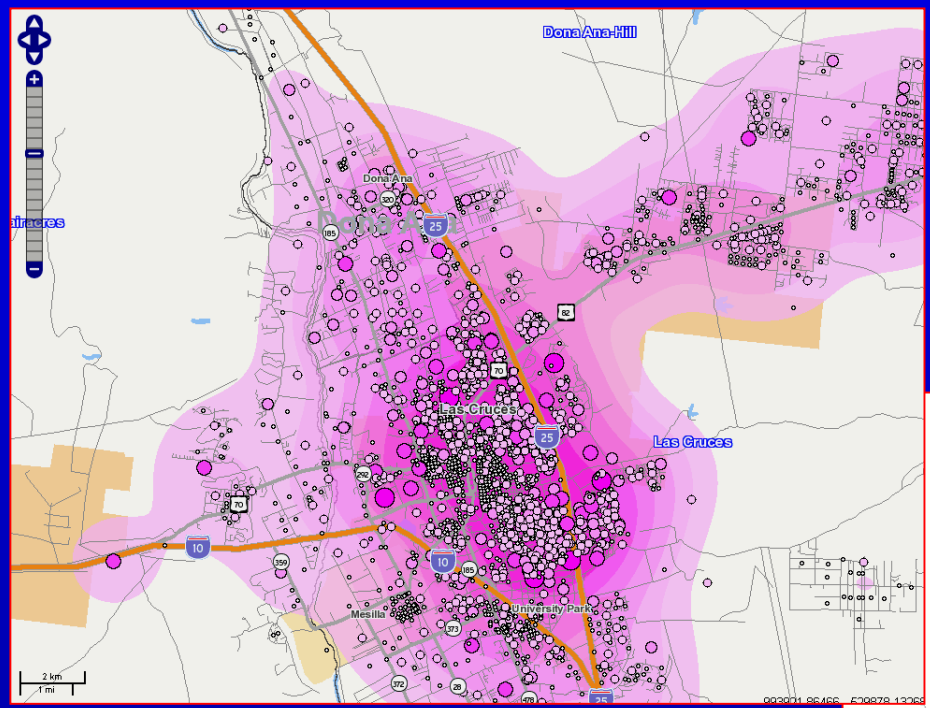
**Analysis Settings**

| | |
|---|---|
| **Report Year(s):** | 2006,2005 |
| **Employment Type:** | Primary Jobs |
| **Labor Market Segment:** | All Workers |
| **Primary Selection Layer:** | Metropolitan/Micropolitan Areas (CBSA) |
| **Primary Selection Features:** | Las Cruces, NM |
| **Advanced Area Selection:** | Ignored. |
| **Map Shows:** | Blocks |
| **Query ID:** | 122271438230874 |

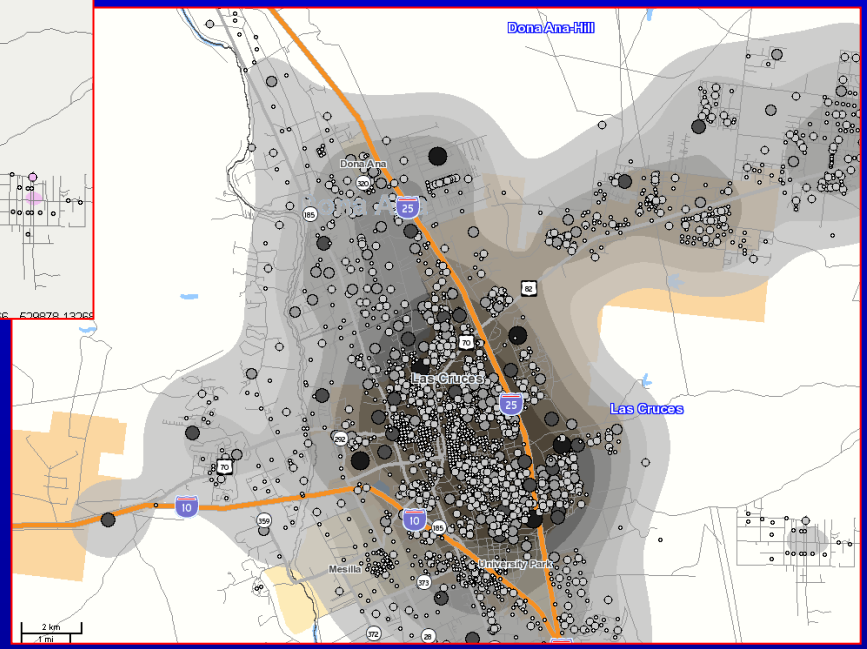
Legend of Selected Settings

Output to HTML, XLS, PDF

# Time Series Animation: Points and Thermals

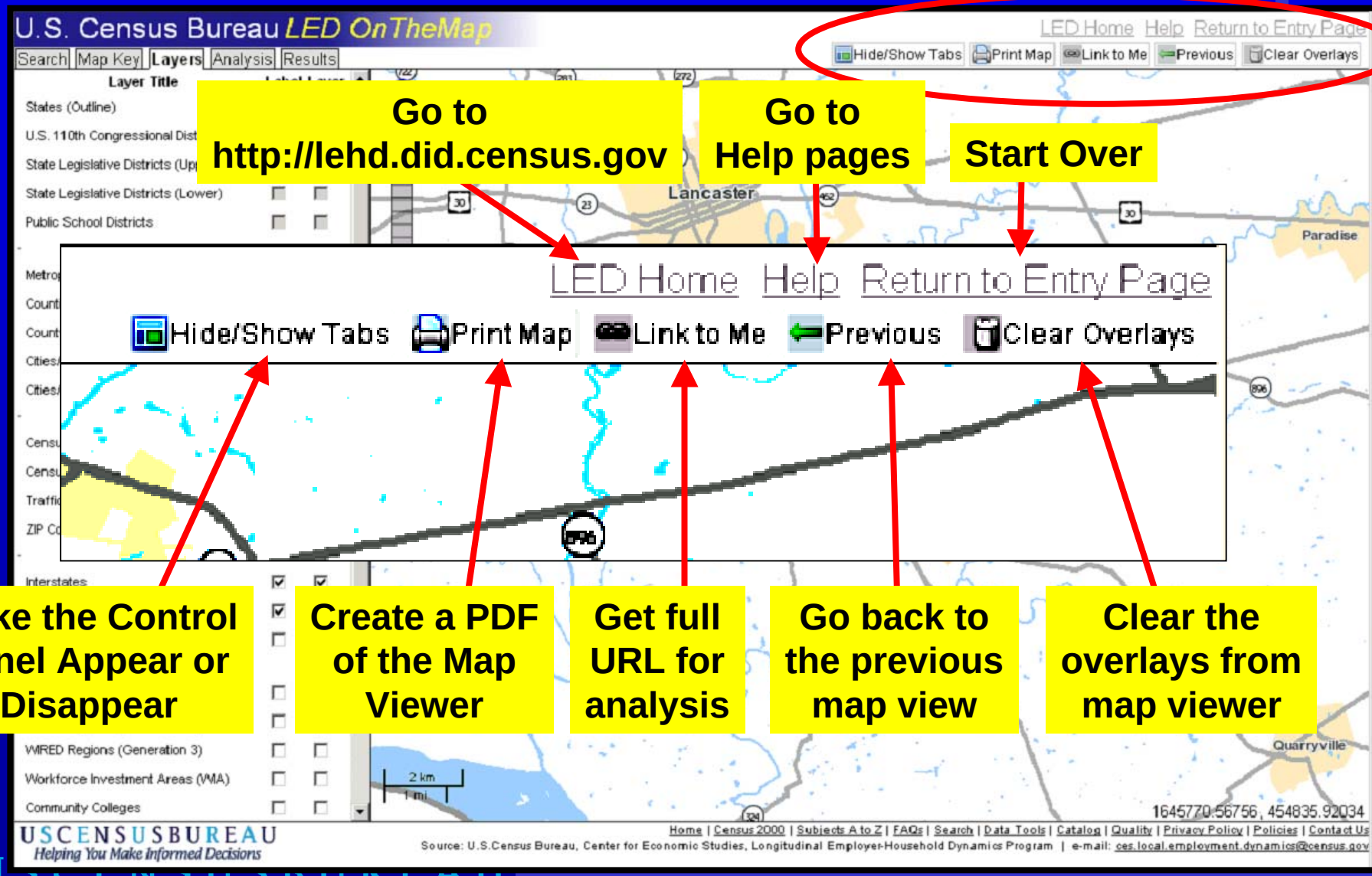



2006




2005

# Other Controls



# Keep in Mind…

- LED not quite national in scope.
- LED does not yet include military, self-employed or federal workers.
- Data in *OnTheMap* refreshed annually.

# Save the Date

***Local Employment Dynamics Annual Partners Meeting***

***Washington, DC****

***March 5-6, 2009***

****in downtown Washington, DC***

# Contact Us

*Local Employment Dynamics*

http://lehd.did.census.gov

*Please send your comments to*:

CES.Local.Employment.Dynamics@census.gov.

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lehd-onthemap@lists.census.gov