Local Employment Dynamics

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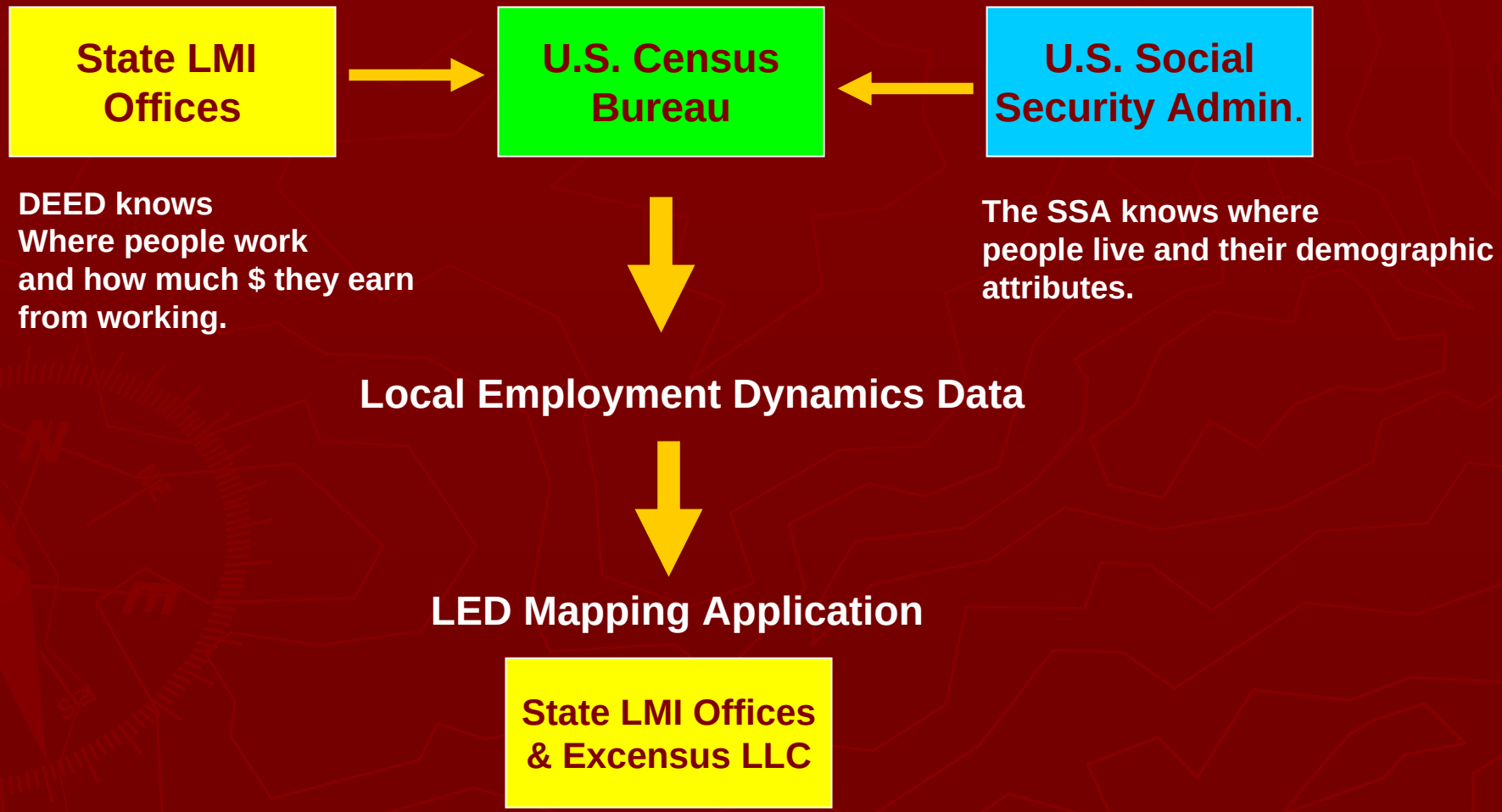
NNIP 5/15/09

Outline

- What is LED?
- LED Data Products
- How Do I Access LED Data?
- LED Analysis

LED: Local Employment Dynamics



M3D Mapping Application V.2 - Mozilla Firefox

http://map.deed.state.mn.us/chameleon/M3D2.phtml

Minnesota 3D Project V.2

M3D

Reset Map | Help | Give Feeback

Map Layers | Reports

Generate Map/Report

Quick View: | Find By Value | Print | Save

help with reports

1) Select Map or Report

Map: Commuteshed, display by

(•) Dot ( ) City ( ) Both

Map: Laborshed, display by

( ) Dot ( ) City ( ) Both

Report: area characteristics of

( ) Employed Residents
( ) Employed Workers
( ) Housing
( ) Demographics

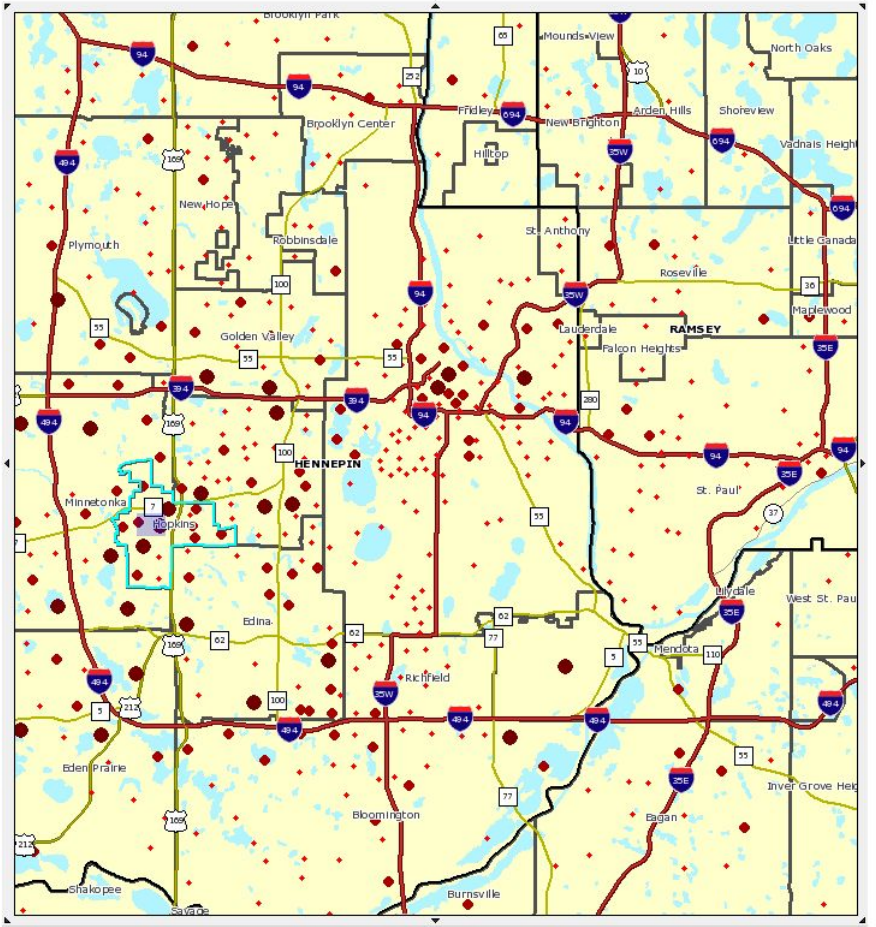
2) Select Area Type and Draw on Map

( ) Rectangle (as drawn)
(•) City (or neighboring cities)
( ) Neighborhood(s)

Clear Selection

3) Generate Report

GO



- Selected City
- Commuteshed (Where Residents Work)
- >50 Commuters
- 11-50 Commuters
- 1-10 Commuters
- Interstates
- US Highways
- State Highways
- County Road
- City Boundary
- Lake / River

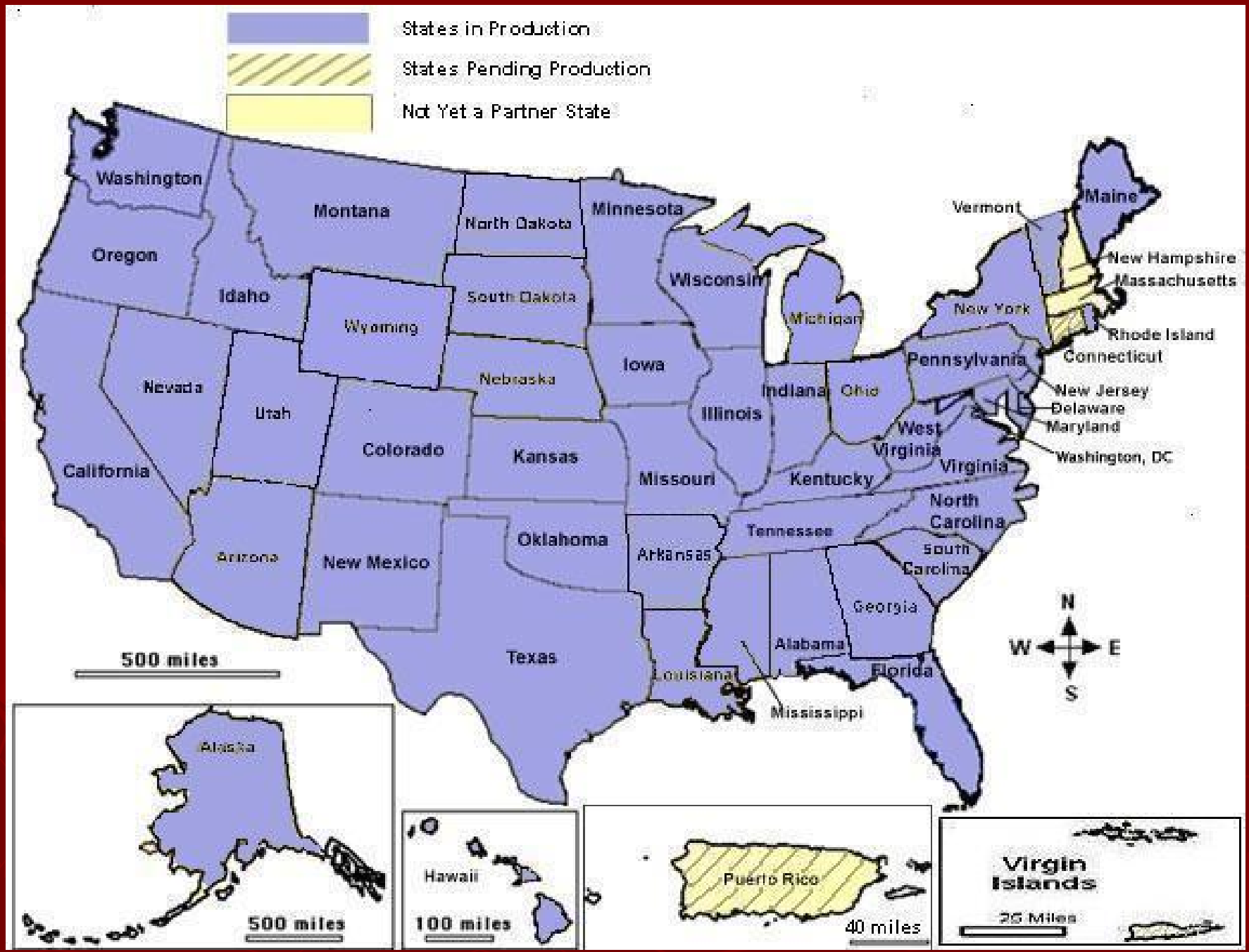
Reference Map

0 1 2 3 mi

positively Minnesota — Department of Employment and Economic Development

Updated: 10/03/2008

Done


States in Production
States Pending Production
Not Yet a Partner State
Washington
Oregon
California
Nevada
Idaho
Montana
Wyoming
Utah
Arizona
Colorado
New Mexico
North Dakota
South Dakota
Nebraska
Kansas
Oklahoma
Texas
Minnesota
Iowa
Missouri
Arkansas
Louisiana
Wisconsin
Illinois
Michigan
Indiana
Ohio
Kentucky
Tennessee
Mississippi
Alabama
Georgia
Florida
South Carolina
North Carolina
Virginia
West Virginia
Pennsylvania
New York
Maryland
Delaware
New Jersey
Connecticut
Rhode Island
Massachusetts
Vermont
Maine
Washington, DC
500 miles
N
W
E
S
Alaska
500 miles
Hawaii
100 miles
Puerto Rico
40 miles
Virgin Islands
25 Miles

Role of LMI Office

- States provide employer data - called QCEW - on a quarterly basis.
- Minnesota provides tools to display and view data
  - M3D mapping tool for Origin-Destination and RAC and WAC files
  - LED County Reports tool from Census gives users access to MN Quarterly Workforce Indicators

LED Data Products

- Quarterly Workforce Indicators (QWI) - data on workforce dynamics including *turnover*, *new hires* and *separations* by detailed geography, industry and demographics.
- Origin-Destination – file linking where people live to where they work by Census block.
- Workplace Area Characteristics / Resident Area Characteristics – Adds demographic and employment detail to O-D dataset.

Quality Workforce Indicators

- Average earnings
- Number of new hires and separations
- Job flows – how many people are moving into and out of jobs during a quarter
- Turnover
- All by
  - Detailed industry
  - Age category
  - Gender
  - County of employment

Origin-Destination

- Home block ID
- Work block ID
- Age
  - <31,31-64, >64
- Earnings
  - <$14,400, $14,400-$40,800, >$40,800
- Jobs
  - All jobs
  - Primary jobs
  - Private jobs
  - Private primary jobs
- Industry – 3 broad categories

Workplace and Resident Area Characteristics

- Age
  - Same as OD
- Earnings
  - Same as OD
- Industry of Occupation
  - 20 NAICS categories (2-digit)

Benefits of LEHD Data

- Updated frequently
  - O-D updated annually
  - QWI updated quarterly
- Population data, not sample or survey data
- Geographic detail - data available at block level
- Some demographic data available
  - Wage
  - Age
  - Industry of employment
  - Gender

Limitations to LEHD Data

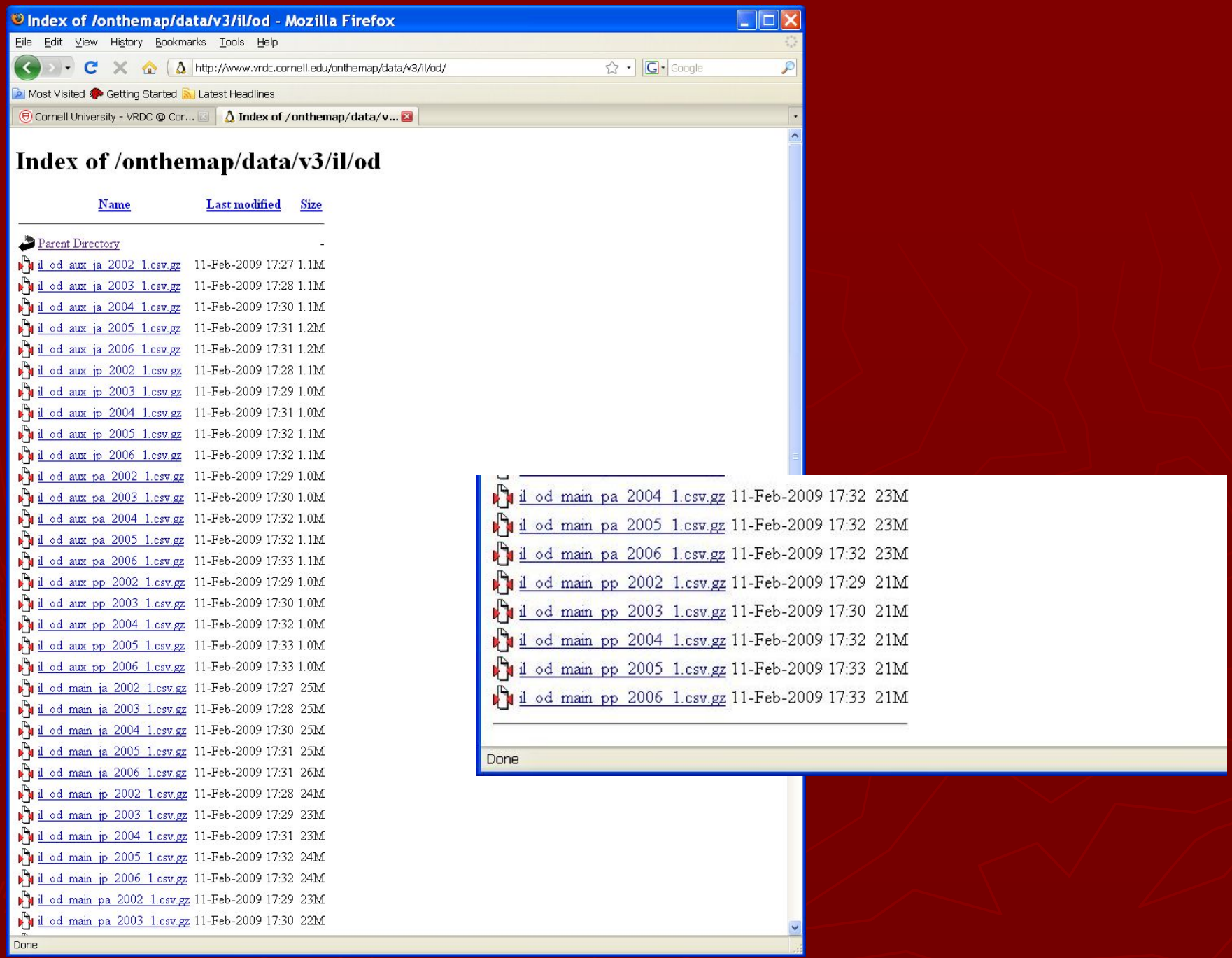
- Latest available O-D data is 2006
- Only includes jobs covered by Unemployment Insurance Program (~90-95% of jobs nationwide)
- Only accurate to the extent that the underlying data are accurate
- Demographic data presented in broad categories
- Census does “fuzzing” of data to protect business/worker identity

Where to Get LED Data

- Cornell Virtual Research Data Center
- Web GIS Sites
  - OnTheMap
  - Minnesota 3D
- Open Source (MapServer, Chameleon, PostGIS)

Cornell Virtual Research Data Center

www.vrdc.cornell.edu/onthemap/data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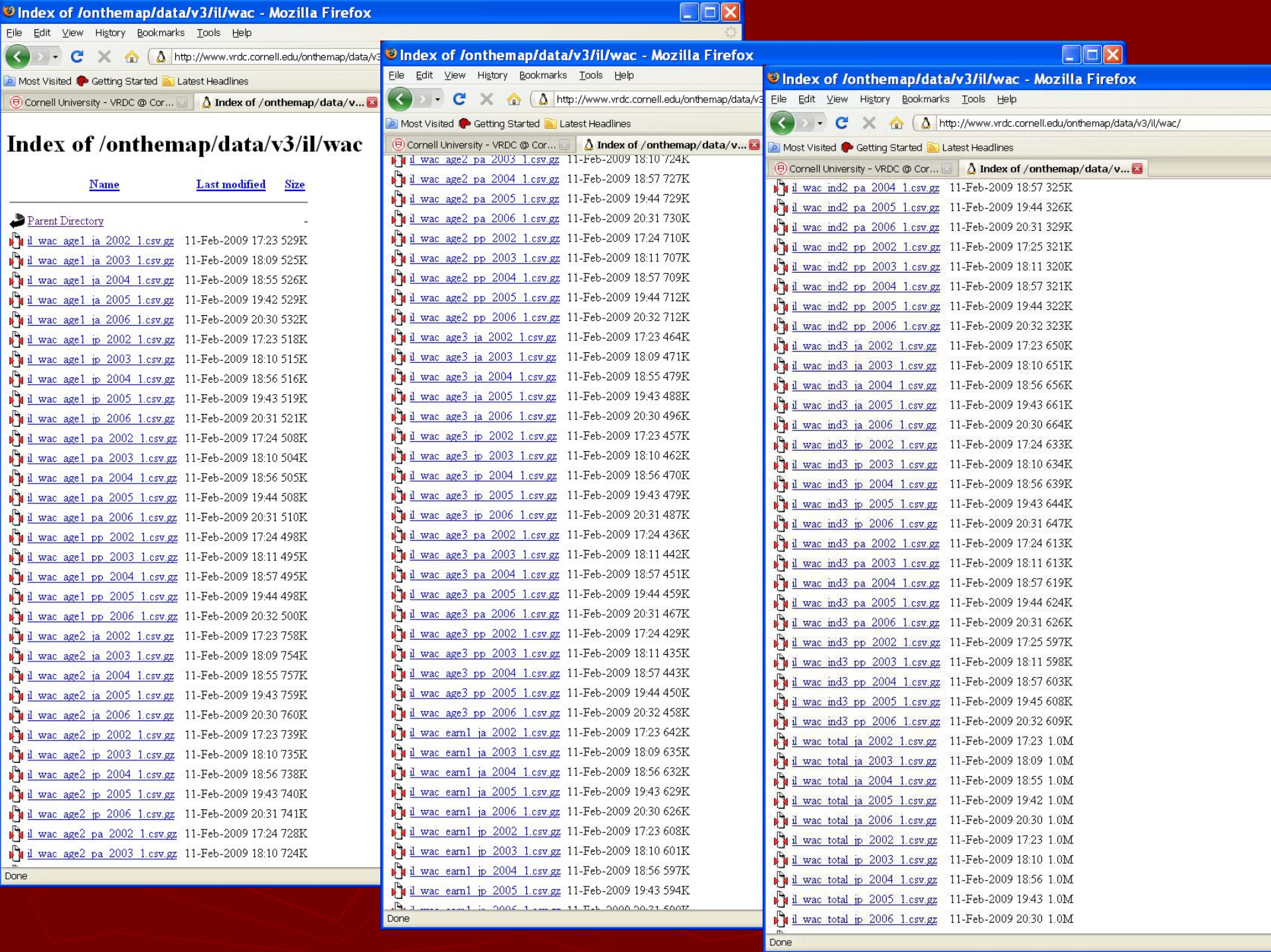
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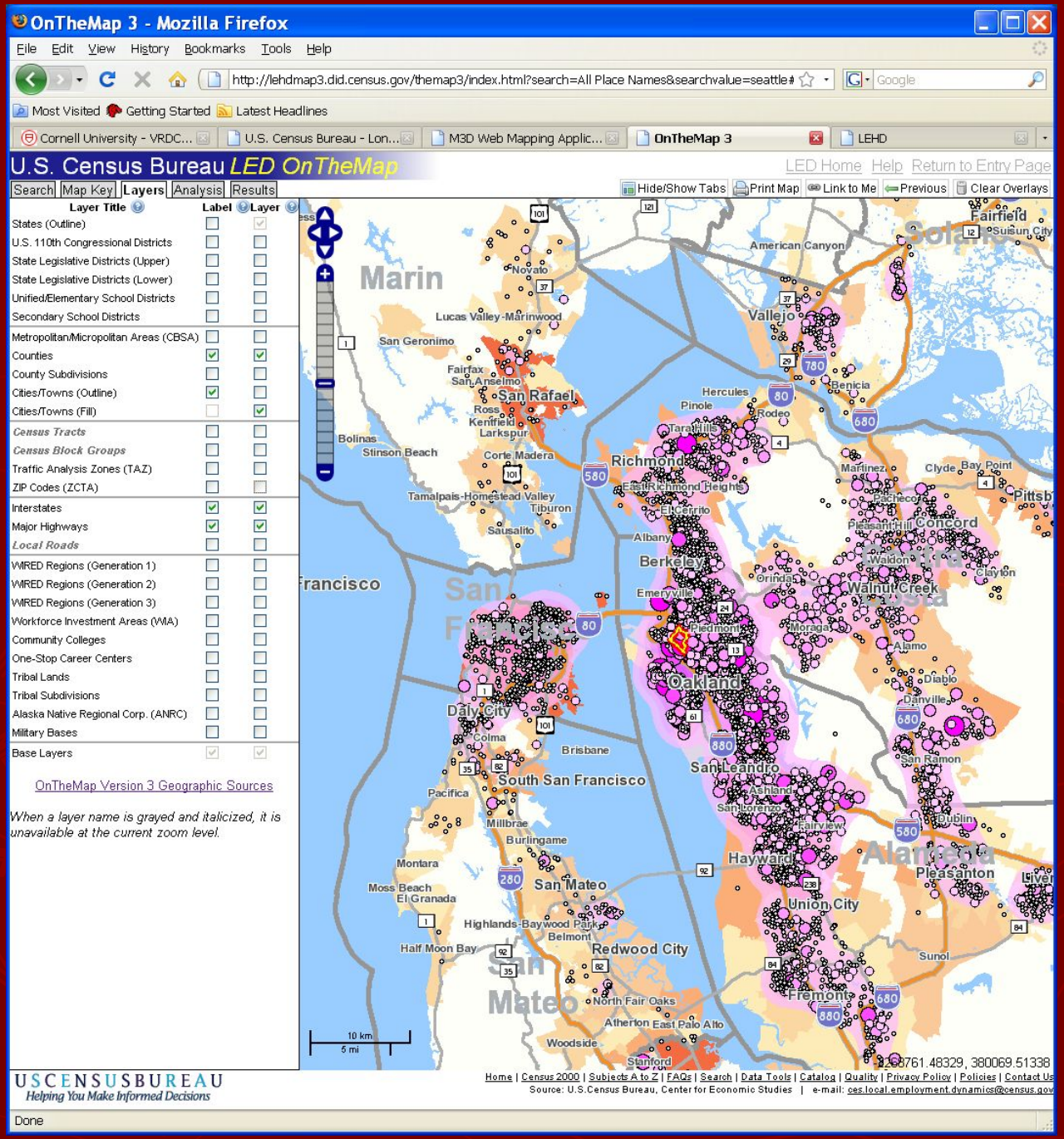
File types

- Data from 2002-2006
- Main & Aux files
- All Jobs, Primary Jobs, Private Jobs, Private Primary Jobs
- Wage, Age, Industry breakdowns (WAC/RAC only)
- 40 O-D files, 200 RAC/WAC files for each state
- Compressed size of entire U.S. file set is 19GB
- gzip'd comma-separated text files (.csv.gz)

OnTheMap

- Place-based search
- Graphical or Text-based Interface
- Map & Report Generation in a variety of formats, levels of geography, permutations of data
- Covers entire U.S.*

* - States Participating in LED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Most Visited Getting Started Latest Headlines
Cornell University - VRDC...
U.S. Census Bureau - Lon...
M3D Web Mapping Applic...
OnTheMap 3
LEHD
U.S. Census Bureau LED OnTheMap
LED Home Help Return to Entry Page
Search Map Key Layers Analysis Results
Hide/Show Tabs Print Map Link to Me Previous Clear Overlays
Layer Title
Label
Layer
States (Outline)
U.S. 110th Congressional Districts
State Legislative Districts (Upper)
State Legislative Districts (Lower)
Unified/Elementary School Districts
Secondary School Districts
Metropolitan/Micropolitan Areas (CBSA)
Counties
County Subdivisions
Cities/Towns (Outline)
Cities/Towns (Fill)
Census Tracts
Census Block Groups
Traffic Analysis Zones (TAZ)
ZIP Codes (ZCTA)
Interstates
Major Highways
Local Roads
WIRED Regions (Generation 1)
WIRED Regions (Generation 2)
WIRED Regions (Generation 3)
Workforce Investment Areas (WIA)
Community Colleges
One-Stop Career Centers
Tribal Lands
Tribal Subdivisions
Alaska Native Regional Corp. (ANRC)
Military Bases
Base Layers
OnTheMap Version 3 Geographic Sources
When a layer name is grayed and italicized, it is unavailable at the current zoom level.
Marin
Fairfield
Suisun City
American Canyon
Novato
Lucas Valley-Marinwood
San Geronimo
Fairfax
San Anselmo
San Rafael
Ross
Kentfield
Larkspur
Bolinas
Stinson Beach
Corte Madera
Tamalpais-Homestead Valley
Tiburon
Sausalito
Vallejo
Hercules
Pinole
Rodeo
Benicia
Richmond
El Cerrito
Albany
Berkeley
Emeryville
Oakland
Piedmont
Orinda
Moraga
Walnut Creek
Alamo
Diablo
Danville
Martinez
Clyde
Bay Point
Pittsburg
Concord
Pleasant Hill
Waldon
Clayton
San Ramon
Dublin
Pleasanton
Livermore
Ashland
San Lorenzo
Fairview
Hayward
Union City
Sunol
Fremont
San Leandro
South San Francisco
Daly City
Colma
Brisbane
Pacifica
Millbrae
Burlingame
Montara
Moss Beach
El Granada
San Mateo
Highlands-Baywood Park
Belmont
Redwood City
Half Moon Bay
North Fair Oaks
Atherton
East Palo Alto
Woodside
Stanford
10 km
5 mi
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USCENSUSBUREAU
Helping You Make Informed Decisions
Home | Census 2000 | Subjects A to Z | FAQs | Search | Data Tools | Catalog | Quality | Privacy Policy | Policies | Contact Us
Source: U.S.Census Bureau, Center for Economic Studies | e-mail: ces.local.employment.dynamics@census.gov
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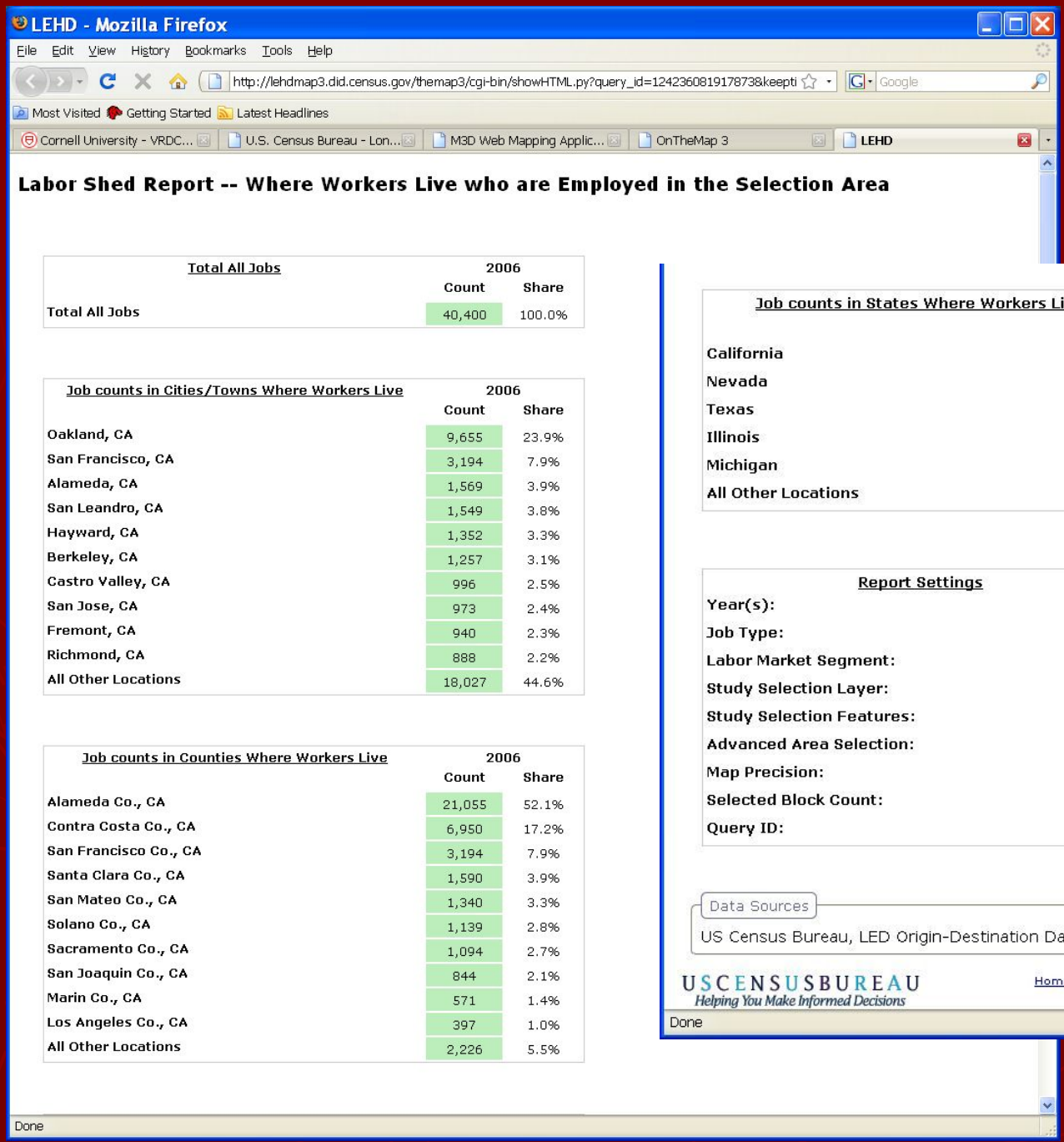

Labor Shed Report -- Where Workers Live who are Employed in the Selection Area

Total All Jobs	2006 Count	2006 Share
Total All Jobs	40,400	100.0%

Job counts in Cities/Towns Where Workers Live	2006 Count	2006 Share
Oakland, CA	9,655	23.9%
San Francisco, CA	3,194	7.9%
Alameda, CA	1,569	3.9%
San Leandro, CA	1,549	3.8%
Hayward, CA	1,352	3.3%
Berkeley, CA	1,257	3.1%
Castro Valley, CA	996	2.5%
San Jose, CA	973	2.4%
Fremont, CA	940	2.3%
Richmond, CA	888	2.2%
All Other Locations	18,027	44.6%

Job counts in Counties Where Workers Live	2006 Count	2006 Share
Alameda Co., CA	21,055	52.1%
Contra Costa Co., CA	6,950	17.2%
San Francisco Co., CA	3,194	7.9%
Santa Clara Co., CA	1,590	3.9%
San Mateo Co., CA	1,340	3.3%
Solano Co., CA	1,139	2.8%
Sacramento Co., CA	1,094	2.7%
San Joaquin Co., CA	844	2.1%
Marin Co., CA	571	1.4%
Los Angeles Co., CA	397	1.0%
All Other Locations	2,226	5.5%

Job counts in States Where Workers Live	2006 Count	2006 Share
California	40,366	99.9%
Nevada	6	0.0%
Texas	5	0.0%
Illinois	5	0.0%
Michigan	4	0.0%
All Other Locations	14	0.0%

Report Settings	
Year(s):	2006
Job Type:	All Jobs
Labor Market Segment:	All Workers
Study Selection Layer:	ZIP Codes (ZCTA)
Study Selection Features:	94612
Advanced Area Selection:	Ignored.
Map Precision:	Blocks
Selected Block Count:	169
Query ID:	124236081917873

Data Sources

US Census Bureau, LED Origin-Destination Data Base (2nd Quarter 2002, 2003, 2004, 2005, and 2006)

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Source: U.S.Census Bureau, Center for Economic Studies | e-mail:

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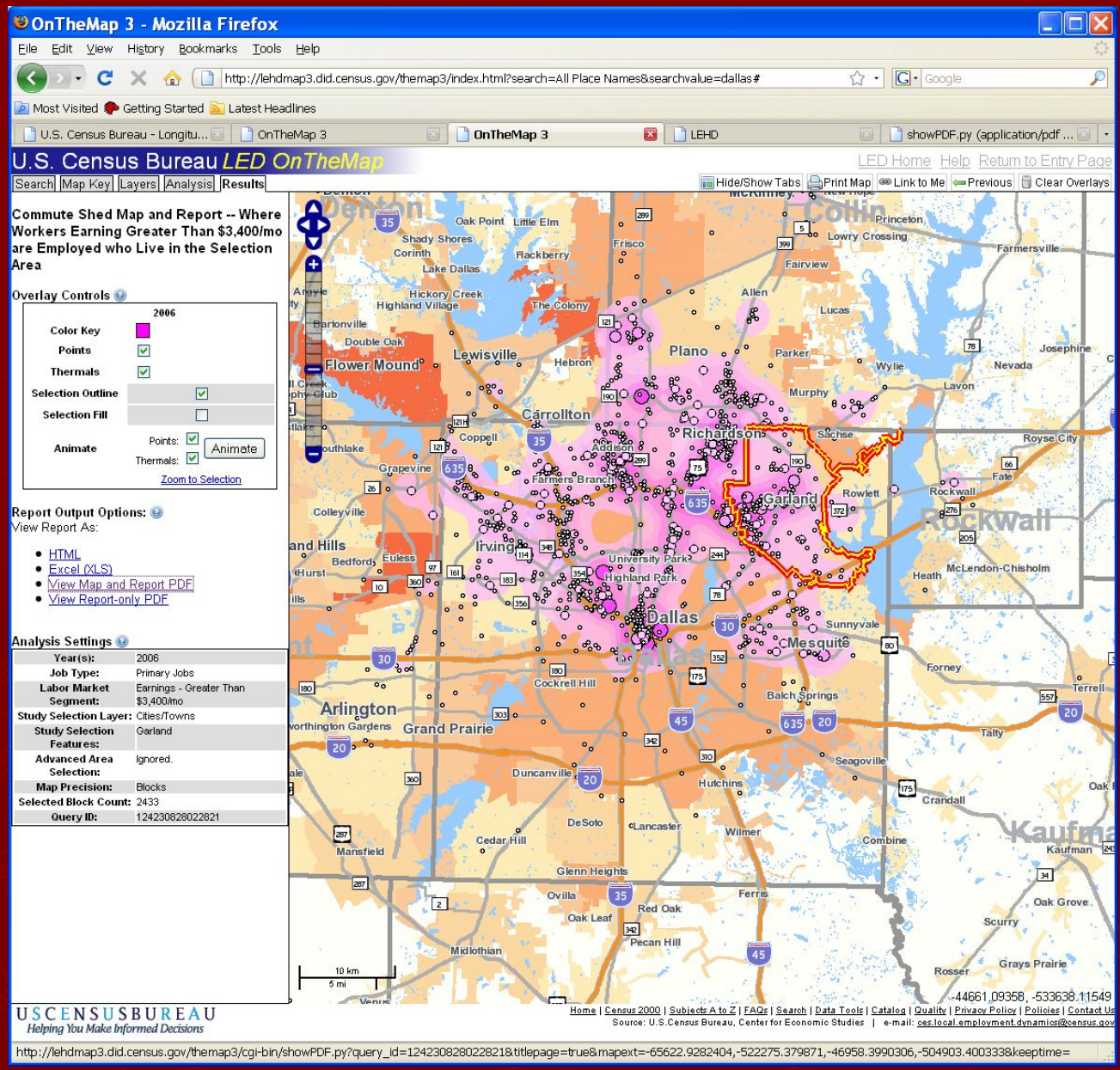
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http://lehdmap3.did.census.gov/themap3/index.html?search=All Place Names&searchvalue=dallas#
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LED Home Help Return to Entry Page
Search Map Key Layers Analysis Results
Hide/Show Tabs Print Map Link to Me Previous Clear Overlays
Commute Shed Map and Report -- Where Workers Earning Greater Than $3,400/mo are Employed who Live in the Selection Area
Overlay Controls
2006
Color Key
Points
Thermals
Selection Outline
Selection Fill
Animate
Points:
Thermals:
Animate
Zoom to Selection
Report Output Options:
View Report As:
HTML
Excel (XLS)
View Map and Report PDF
View Report-only PDF
Analysis Settings
Year(s): 2006
Job Type: Primary Jobs
Labor Market Segment: Earnings - Greater Than $3,400/mo
Study Selection Layer: Cities/Towns
Study Selection Features: Garland
Advanced Area Selection: Ignored.
Map Precision: Blocks
Selected Block Count: 2433
Query ID: 124230828022821
Denton
Collin
Oak Point
Little Elm
Shady Shores
Corinth
Hackberry
Frisco
Princeton
Lowry Crossing
Farmersville
Lake Dallas
Fairview
Hickory Creek
Highland Village
The Colony
Allen
Lucas
Double Oak
Flower Mound
Lewisville
Hebron
Plano
Parker
Wylie
Josephine
Nevada
Lavon
Murphy
Carrollton
Coppell
Addison
Richardson
Sachse
Royse City
Grapevine
Farmers Branch
Garland
Rowlett
Fate
Rockwall
Colleyville
Irving
Bedford
Euless
University Park
Highland Park
Heath
McLendon-Chisholm
Dallas
Sunnyvale
Mesquite
Forney
Cockrell Hill
Balch Springs
Terrell
Arlington
Grand Prairie
Talty
Seagoville
Duncanville
Hutchins
Crandall
DeSoto
Lancaster
Wilmer
Cedar Hill
Combine
Kaufman
Mansfield
Glenn Heights
Ovilla
Red Oak
Ferris
Oak Grove
Oak Leaf
Scurry
Pecan Hill
Midlothian
Rosser
Grays Prairie
10 km
5 mi
-44661.09358, -533638.11549
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Source: U.S.Census Bureau, Center for Economic Studies | e-mail: ces.local.employment.dynamics@census.gov
http://lehdmap3.did.census.gov/themap3/cgi-bin/showPDF.py?query_id=124230828022821&titlepage=true&mapext=-65622.9282404,-522275.379871,-46958.3990306,-504903.400333&keeptime=

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Commute Shed Report -- Where Workers Earning Greater Than $3,400/mo are Employed who Live in the Selection Area

Total Primary Jobs	2006 Count	Share
Total Primary Jobs	35,437	100.0%

Job counts in Cities/Towns Where Workers are Employed	2006 Count	Share
Dallas, TX	13,372	37.7%
Garland, TX	3,642	10.3%
Richardson, TX	2,995	8.5%
Plano, TX	2,791	7.9%
Irving, TX	1,637	4.6%
Austin, TX	1,460	4.1%
Farmers Branch, TX	1,024	2.9%
Mesquite, TX	983	2.8%
Carrollton, TX	788	2.2%
Fort Worth, TX	640	1.8%
All Other Locations	6,105	17.2%

Job counts in Counties Where Workers are Employed	2006 Count	Share
Dallas Co., TX	25,178	71.1%
Collin Co., TX	4,371	12.3%
Tarrant Co., TX	1,749	4.9%
Travis Co., TX	1,485	4.2%
Denton Co., TX	618	1.7%
Harris Co., TX	480	1.4%
Rockwall Co., TX	286	0.8%
Hunt Co., TX	158	0.4%
McLennan Co., TX	115	0.3%
Kaufman Co., TX	94	0.3%
All Other Locations	903	2.5%

Job counts in States Where Workers are Employed	2006 Count	Share
Texas	35,375	99.8%
Oklahoma	9	0.0%
Arkansas	8	0.0%
Florida	6	0.0%
Tennessee	5	0.0%
All Other Locations	34	0.1%

Report Settings	
Year(s):	2006
Job Type:	Primary Jobs
Labor Market Segment:	Earnings - Greater Than $3,400/mo
Study Selection Layer:	Cities/Towns
Study Selection Features:	Garland
Advanced Area Selection:	Ignored.
Map Precision:	Blocks
Selected Block Count:	2433
Query ID:	124230828022821

Data Sources

US Census Bureau, LED Origin-Destination Data Base (2nd Quarter 2002, 2003, 2004, 2005, and

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Source: U.S.Census Bureau, Center for

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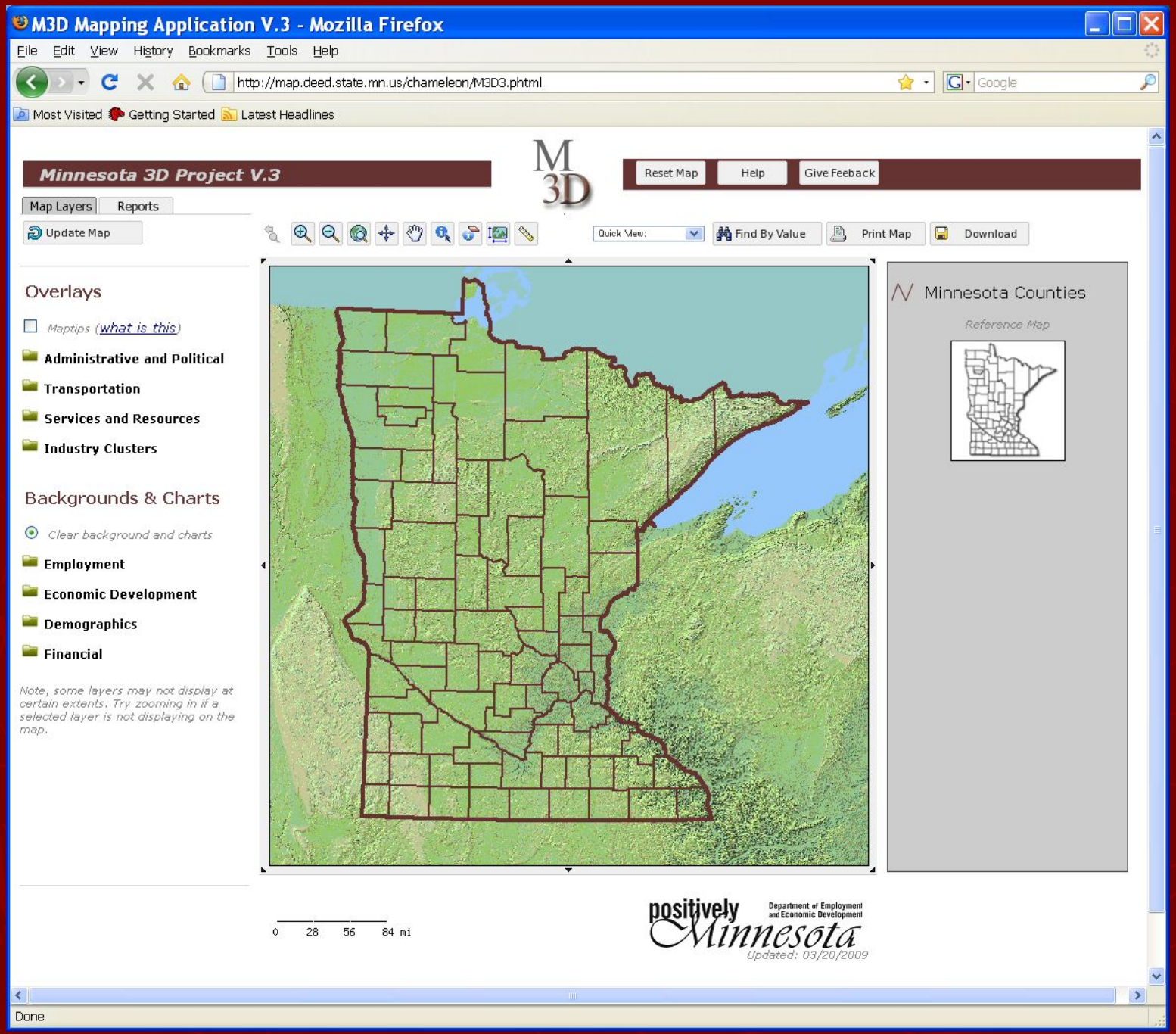
Minnesota 3D

- Minnesota Based LED Data
- 90+ Additional Layers
- Services / Resources, External Links
- Unique Datasets
  - Metro Foreclosures (point)
  - Sales Tax Revenue (block group)
  - Affordable Housing Inventory (point)
  - MN State Tax Returns (block group)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http://map.deed.state.mn.us/chameleon/M3D3.phtml
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Minnesota 3D Project V.3
M 3D
Reset Map
Help
Give Feeback
Map Layers
Reports
Update Map
Quick View:
Find By Value
Print Map
Download
Overlays
Maptips (what is this)
Administrative and Political
Transportation
Services and Resources
Industry Clusters
Backgrounds & Charts
Clear background and charts
Employment
Economic Development
Demographics
Financial
Note, some layers may not display at certain extents. Try zooming in if a selected layer is not displaying on the map.
Minnesota Counties
Reference Map
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positively Minnesota
Department of Employment and Economic Development
Updated: 03/20/2009
Done

M3D Web Mapping Application V.3 - Mozilla Firefox

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http://map.deed.state.mn.us/chameleon/M3D3.phtml

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Minnesota 3D Project V.3

Reset Map | Help | Homepage

Map Layers | Reports

Generate Map/Report

help with reports

1) Select Map or Report

Map: Commute shed, display by

Dot City Both

Map: Labor shed, display by

Dot City Both

Report: area characteristics of

- Paired Area Labor Shed (New!)
- Employed Residents
- Employed Workers
- Demographics
- Housing

2) Select Area Type and Draw on Map

Draw with:

- Rectangle
- Multiple Rectangles (New!)
- Freehand (New!)
- Draw Paired Area (New!)

Select Area:

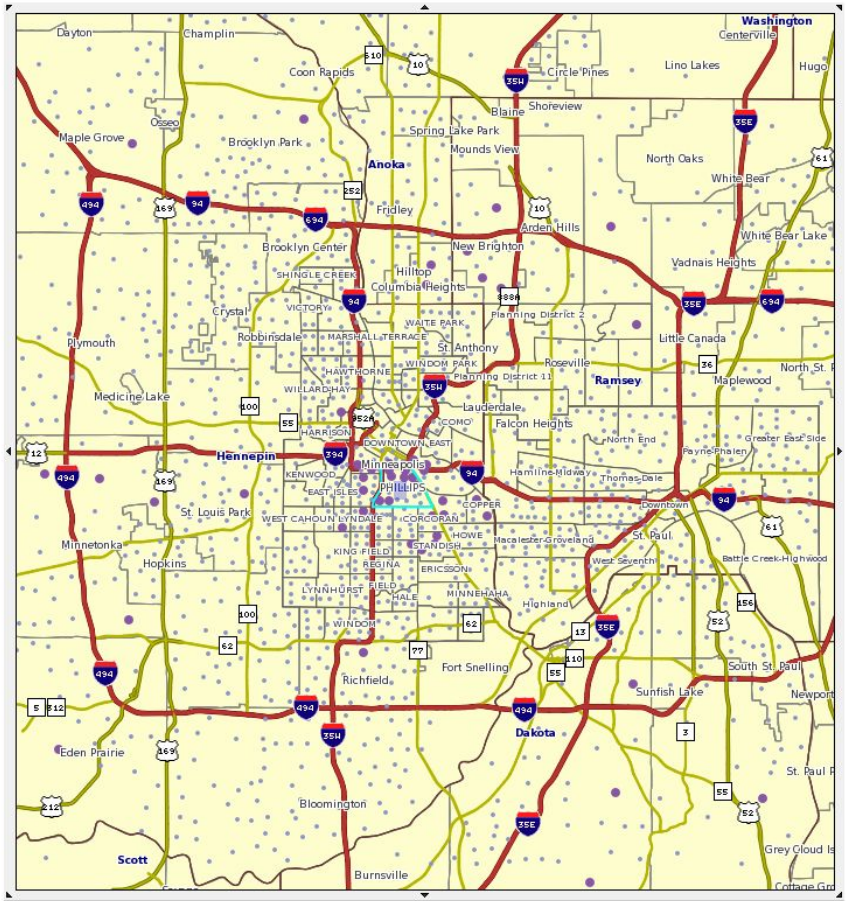
- Block Group
- City
- Neighborhood(s)

Clear Selection

3) Generate Report

GO

Quick View: | Search | Clear Search | Print | Download



- Selected Neighborhood / District
- Laborshed (Where Workers Live)
- >100 Commuters
- 21-100 Commuters
- 1-20 Commuters
- Interstates
- US Highways
- State Highways
- Minnesota Counties
- Neighborhood / Planning District
- County Subdivisions

Reference Map

positively Minnesota — Department of Employment and Economic Development

Done

M3D V.3 Workplace Area Characteristics Report - Mozilla Firefox

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http://map.deed.state.mn.us/chameleon/wac_nhood_m3d3.phtml?sid=4a0ce744016ac

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Workplace Area Characteristics Report - 2006 LED Data -

The following neighborhoods included in report:
PHILLIPS,

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	Percent	Number	Metro %	Metro #
Annual Average Earnings by Job	Selection Stats		Metro Stats	
<$14,400	16.7	2486	*24.6%*	*389,381*
$14,400-$40,800	37.0	5517	*32.5%*	*514,077*
>$40,800	46.3	6896	*42.9%*	*678,573*
Total	100.0	14899	*100.0%*	*1,582,031*
Age of Job Holder	Selection Stats		Metro Stats	
30 and under	22.7	3378	*27.1%*	*429,183*
31-54	62.9	9365	*57.7%*	*913,103*
55 and over	14.5	2156	*15.2%*	*239,746*
Total	100.1	14899	*100.0%*	*1,582,032*
Jobs by Industry	Selection Stats		Metro Stats	
Agriculture, Forestry, Fishing and Hunting	0.0	0	*0.2%*	*2,693*
Mining	0.0	0	*0%*	*381*
Utilities	0.0	0	*0.2%*	*3,737*
Construction	0.7	107	*4.5%*	*71,717*
Manufacturing	1.6	242	*12.0%*	*189,471*
Wholesale Trade	2.7	396	*6.0%*	*95,091*
Retail Trade	1.4	209	*10.3%*	*163,015*
Transportation and Warehousing	0.4	65	*3.0%*	*47,137*
Information	0.1	19	*2.4%*	*38,383*
Finance and Insurance	0.7	105	*6.1%*	*96,334*
Real Estate, Rental, and Leasing	0.4	62	*1.9%*	*30,692*
Professional, Scientific, and Technical Services	1.2	177	*6.7%*	*105,883*
Management of Companies and Enterprises	0.5	71	*4.6%*	*72,618*
Admin, Support, Waste Management, Remediation	3.9	587	*6.1%*	*96,487*
Educational Services	0.3	46	*8.2%*	*130,078*
Health Care and Social Assistance	80.6	12011	*11.8%*	*186,067*
Arts, Entertainment, and Recreation	0.5	78	*1.5%*	*22,862*
Accommodation and Food Services	1.8	265	*7.7%*	*121,754*
Other Services (Except Public Administration)	3.1	459	*3.5%*	*55,007*
Public Administration	0.0	0	*3.3%*	*52,623*
All Jobs (including private and public)	**99.9**	**14899**	*100.0%*	*1,582,030*

Laborshed (Cities where employed workers in the selected area live)

	All Jobs	*Jobs in Goods Producing*	*Jobs in Transportation & Utilities*	*Jobs in Other Services*
Minneapolis city	4133	109	201	3823
St. Paul city	1047	22	57	968
Bloomington city	527	21	26	480
Brooklyn Park city	389	3	17	369
Eagan city	377	4	11	362
Coon Rapids city	332	10	17	305
Richfield city	332	3	9	320
Plymouth city	326	1	13	312
St. Louis Park city	300	2	14	284
Edina city	286	0	8	278

M 3D

*Source: US Census Bureau, LED Residence Area Characteristics Files (2006). Please note that Residence Area Characteristics are based on **all primary** jobs while Workplace Area Characteristics files are based on **all** jobs.*

Done

Done

Residence Area Characteristics Report - 2006 LED Data -

The following neighborhoods included in report:
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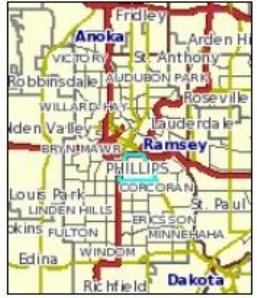

	Percent	Number	*Metro %*	*Metro #*
Annual Average Earnings by Worker	Selection Stats		Metro Stats	
<$14,400	32.4	1652	*20.2%*	*273,536*
$14,400-$40,800	50.8	2585	*34.2%*	*462,524*
>$40,800	16.8	855	*45.6%*	*615,753*
Total	100.0	5092	*100.0%*	*1,351,813*
Age of Worker	Selection Stats		Metro Stats	
30 and under	37.5	1912	*27.0%*	*364,520*
31-54	51.0	2597	*57.4%*	*776,016*
55 and over	11.4	583	*15.6%*	*211,277*
Total	99.9	5092	*100.0%*	*1,351,813*
Workers by Industry of Primary Job	Selection Stats		Metro Stats	
Agriculture, Forestry, Fishing and Hunting	0.1	4	*0.2%*	*2,481*
Mining	0.0	1	*0.0%*	*345*
Utilities	0.2	9	*0.3%*	*3,909*
Construction	2.7	138	*4.4%*	*59,103*
Manufacturing	8.2	418	*12.1%*	*164,063*
Wholesale Trade	4.5	229	*6.1%*	*82,821*
Retail Trade	11.3	574	*10.9%*	*146,653*
Transportation and Warehousing	3.7	187	*3.2%*	*43,800*
Information	2.2	111	*2.6%*	*35,200*
Finance and Insurance	5.3	268	*6.5%*	*87,597*
Real Estate, Rental, and Leasing	1.6	81	*1.9%*	*25,494*
Professional, Scientific, and Technical Services	5.4	273	*6.9%*	*93,836*
Management of Companies and Enterprises	2.6	130	*4.4%*	*59,748*
Admin, Support, Waste Management, Remediation	9.9	506	*5.6%*	*75,084*
Educational Services	7.1	364	*8.4%*	*113,982*
Health Care and Social Assistance	18.0	917	*11.7%*	*158,056*
Arts, Entertainment, and Recreation	1.4	70	*1.3%*	*17,179*
Accommodation and Food Services	10.3	523	*6.9%*	*92,591*

On The Map

http://lehdmap3.did.census.gov/themap3/

(Google: Census LED, OnTheMap)

M3D Website

http://map.deed.state.mn.us/M3D

(Google: M3D)