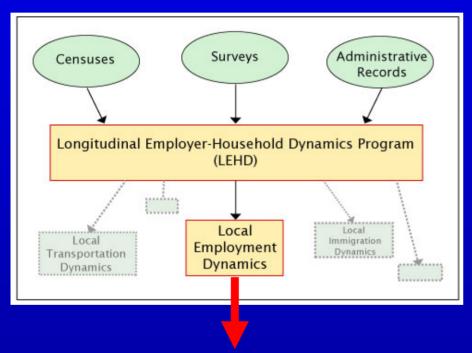
An Update on

The LEHD Program

Jeremy Wu New Jersey State Data Center Census Bureau June 7, 2006

The LEHD Concept – Data Integration



New data and products

- Use existing data to link multiple sources
- Create new data and products
- Reduce cost and respondent burden
- Make data available while protecting confidentiality
- Enhance Census
 Bureau operations

Merge multiple data snapshots into information movies about the U.S. society and economy



Local Employment Dynamics

- ✓ A voluntary partnership between the states and the Census Bureau
- States supply quarterly worker and business wage records
- Census Bureau merges the state records with other data to produce new data and products:
 - ✓ a longitudinal national frame of jobs
 - ✓ an associated data infrastructure

State of LED Partnership

- Regular production 32
- Experimental production
- To supply historical files
- In clearance to join

- State partners
- 8 states yet to join
 - AK, CT, MA, NE, NH, NY, OH, SD

43

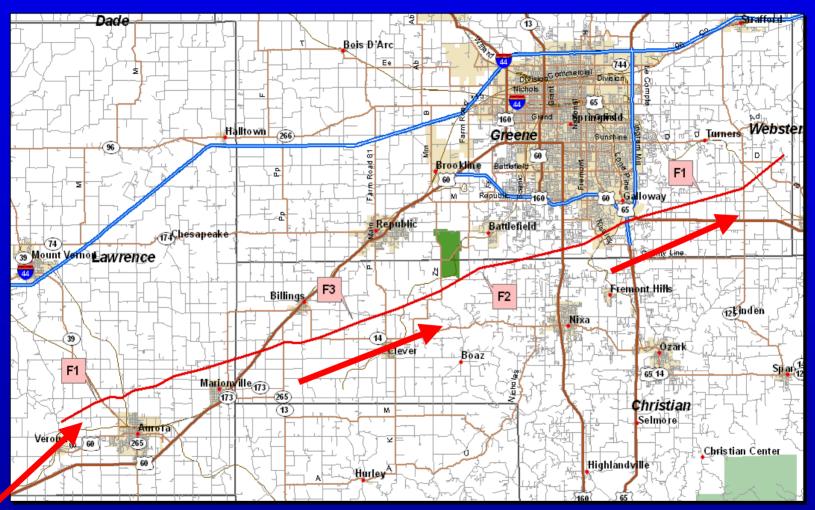
LED in Action

Recent Employment and Training Reporter article on:

- Tornados
- Military base realignment
- Bridges
- Inter-state commuting

Missouri Tornado Path

March 12, 2006

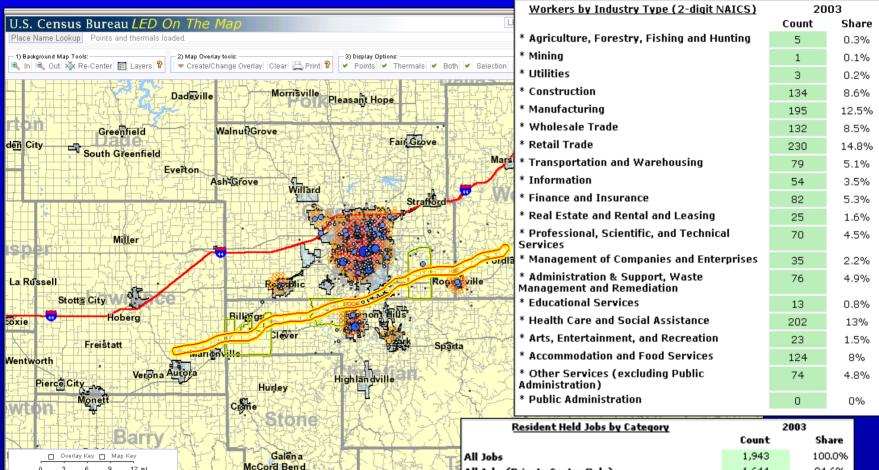


F-Scale: F3 between Clever and Nixa

Width: 1/4 to 1/2 mile

Path Length: ~40 miles Time: 10:08 – 11:00 P.M.

On the Map: Where People Go to Work

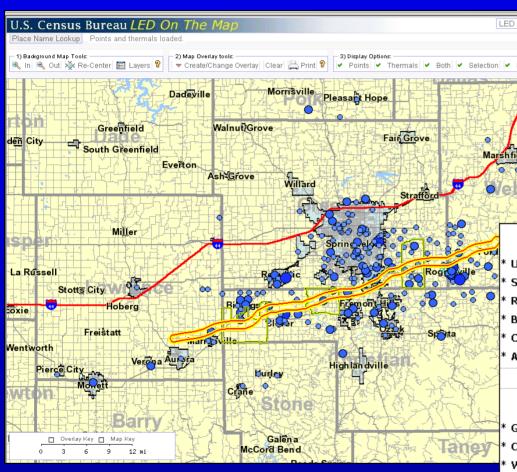


Where do people who live in the path of the tornado work?

TI C C E N	CHCDHD	E A 11
USCEN	SUSBUR	E A U

Resident Held Jobs by Category	2003		
<u>'</u>	Count	Share	
All Jobs	1,943	100.0%	
All Jobs (Private Sector Only)	1,644	84.6%	
All Primary Jobs (Worker's highest paying job)	1,843	94.9%	
All Primary Jobs (Private Sector Only) and Baseline Count of Workers	1,557	80.1%	
Workers by Earnings Paid	2003		
	Count	Share	
\$1,200 per month or less	452	29%	
\$1,201 to \$3,400 per month	674	43.3%	
More then \$3,400 per month	431	27.7%	

On the Map: Where Workers Live



Where do workers employed at jobs located in the path of the tornado *live*?

	OWI Indicators - Private Sector Jobs	2003:Q2
1	* Employment (Beginning-of-2nd quarter)	248
١	* Employment, Stable Jobs	210
	* Separations, Stable Jobs	24
	* New Hires, Stable Jobs	21
	* Firm Job Gain	38
1	* Firm Job Loss	21
	* Employment (reference quarter)	326
1	* Average Monthly Earnings, Stable Jobs	\$ 2,283
	* Average Monthly Earnings Separations from Stable Jobs	\$ 975
	* Average Monthly Earnings, New Hires, Stable Jobs	\$ 2,128

	Charles I was I was a line of the control of the co		
Š	Cities/Towns Where Workers Live	2003	
		Count Share	
-	* Unincorporated Areas	112	45.2%
Q	* Springfield, MO	52	21%
): []	* Republic, MO	14	5.6%
Ĺ	* Billings, MO	12	4.8%
J	* Out-of-State	9	3.6%
Ž Ž	* All Other Locations	49	19.8%

Counties Where Workers Live	20	03
	Count	Share
* Greene Co., MO	97	39.1%
* Christian Co., MO	73	29.4%
* Webster Co., MO	22	8.9%
* Lawrence Co., MO	14	5.6%
* Out-of-State	9	3.6%
* All Other Locations	33	13.3%

On The Map: Downtown St. Louis **Proposed Mississippi River Bridge Project**

LED in Action

Proposed Mississippi River Bridge Project Analysis

Cross Border Commuting



Athere do secole who work in North St. Louis, MO Issa?



Where do secrile who issue in Granite City. It, would





The purple thermal coloration and blue dots represent where people who work in the study area live. The grange thermal coloration and blue dots represent where those who live in the study area work. The study areas (northern St. Louis City, MO, Granite City, IL and East St. Louis. IL in this case) are highlighted in vellow.

In these illustrations, the importance of the current bridges for residents in the northern neighborhoods of greater St. Louis is highlighted by the identification of commuters crossing from northern St. Louis to Granite City, IL, and from Granite City, IL to downtown St. Louis and numerous locations on the inner and outer beltways.

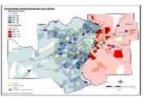


USCENSUSBUREAU

http://lehdmap.dsd.census.gov





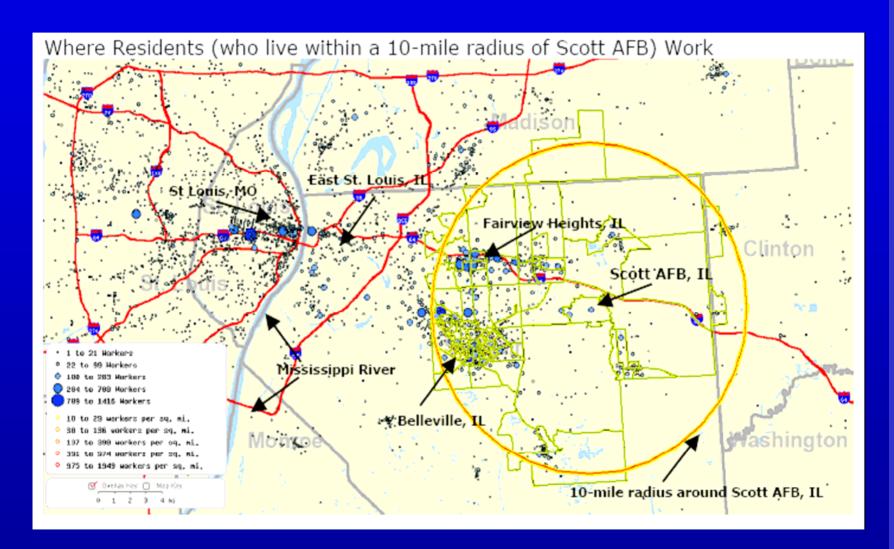


The Current Situation and the New Mississippi River Bridge

Presently, there is one interstate crossing the Mississippi River in downtown St. Louis: the Poplar St. Bridge. It handles traffic from Interstates 55, 64, and 70. According to transportation planners, the Poplar St. Bridge is severely overburdened. The 2-mile approach from the Illinois side adds to the congestion with the convergence of three interstates. Projections show that severe traffic congestion is likely by the year 2020, without improvements to the transportation network. Rush-hour congestion could double and last up to three hours. The average delay would increase from 10 minutes per vehicle today to 55 minutes per vehicle by the year 2020.

The proposed new bridge would host Interstate 70, one of three primary east-west interstate highways in the country. The cable-stayed bridge would be designed to carry eight lanes of traffic and be located approximately one mile north of the Dr. Martin Luther King Bridge. With LED we can identify geographic concentrations of commuters both where they live and where they work, on either side of the Mississippi, aiding transportation planning within the metropolitan area.

On The Map: Recruiting for Scott AFB





On The Map

LEHD's online dynamic mapping tool

- √ 15 states online
- 3 states are joining

- ✓ Where do workers live?
- Where do people work?
- Companion reports on age, earnings, and industry
- First synthetic data product

- User select areas
- ✓ Block is base unit for display; block group is base unit for report
- Modular geographic layers such as community colleges and zip codes

QWI Online – Flagship Product

8 age categories

Entries updated instantaneously

2-, 3-, and 4-digit NAICS code



Download Dataset	Print Table
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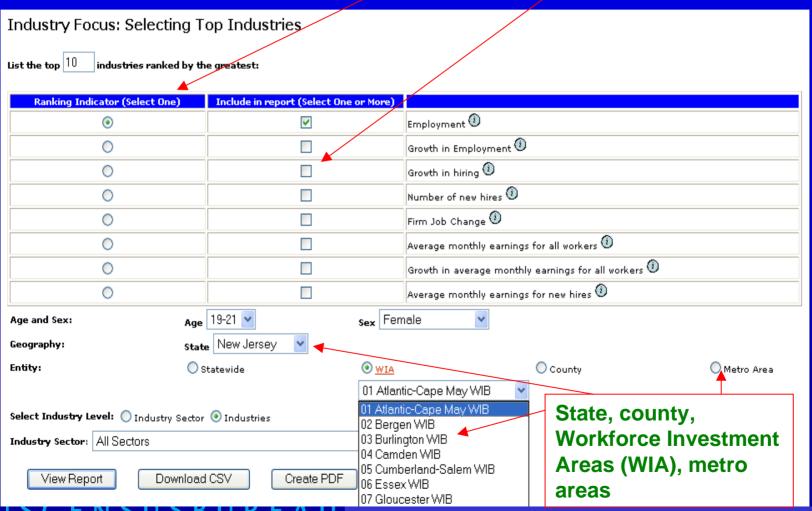
QWI Quick Facts	Atlantic (Q1)	Atlantic (Avg:Selected + 3 Prior qtrs)	New Jersey (Q1)	New Jersey (Avg:Selected + 3 Prior qtrs)
Total Employment	128,573	135,672	3,771,977	3,811,829
Net Job Flows	13,897	1,193	122,812	40,651
① Job Creation	17,957	10,787	275,516	243,047
New Hires	18,060	21,696	547,343	597,463
O Separations	18,930	27,763	575,878	713,171
① Turnover	8.3%	11.5%	9.2%	10.3%
Avg Monthly Earnings	\$2,987.00	\$3,069.75	\$4,257.00	\$4,138.50
Avg New Hire Earnings	\$1,748.00	\$2,009.50	\$2,538.00	\$2,693.25

View Detailed Comparison Reports

For more information

Key Features of Industry Focus

Ranking and multiple indicator selection



Industry Focus provides...

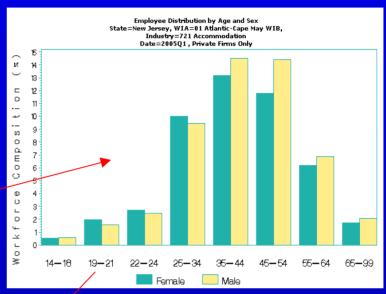
cus: Top Industries Results (click on Industry link to see workforce information)

All 10 eligible industries ranked on the greatest average monthly earnings for new hires State=New Jersey, WIA=01 Atlantic-Cape May WIB, Sex=Female, Age=19-21
Private Firms Only

Rank	Industry	New Hire Earnings (\$) (2004Q2,2004Q3, 2004Q4,2005Q1)	Average Quarterly Employment (2004Q2,2004Q3, 2004Q4,2005Q1)	Growth in Employment (%) (2004Q1,2005Q1)
	All NAICS subsectors	\$1,032	4,596	1.5 %
1	623 Nursing and Residential Care Facilities	\$1,477	105	14.5 %
2	621 Ambulatory Health Care Services	\$1,247	129	8.1 %
3	721 Accommodation	\$1,205	948	-11.9 %
4	622 Hospitals	\$1,047	127	-0.8 %
5	812 Personal and Laundry Services	\$996	92	-20.4 %
6	722 Food Services and Drinking Places	\$893	1,098	17.3 %
7	445 Food and Beverage Stores	\$835	335	3.7 %
8	452 General Merchandise Stores	\$830	181	2.7 %
9	448 Clothing and Clothing Accessories Stores	\$818	251	14.6 %
10	446 Health and Personal Care Stores	\$708	132	-3.8 %

Click on industry to see workforce characteristics

	14-18	19-21	22-24	25-34	35-44	45-54	55-64	65-99
Female	0.54%	1.95%	2.69%	9,99%	13.2%	11.81%	6.19%	1.71%
Male	0.56%	1.55%	2.47%	9.47%	14.5%	14.43%	6.89%	2.06%



easy, intuitive selection criteria and economic indicators for your geography, work force, and industry.

e-Learning Module: Site Tour



Partners Only Features...



- √ State Info
- **✓ State Information Technology Contact**
- ✓ Steering Committee Information

- ✓ Standard Operating Procedures (SOP)
- ✓ Password-Protected Review Area for Individual States

LEHD Library

Home Local Employment Dynamics Data Tools Research Library About Us	
Profiles Workshops Training Technical User Guides Technical Papers Presentations Newsletter Archive	
□ Print	

Library

This section contains various documents generated by the LEHD Program. It includes:

- Profiles: A profile of older workers in more than 10 different LED states.
- Workshops: Papers and presentations from annual LED workshops since 2000.
- Training: Materials used in LED training sessions since 2003.
- Technical User Guides: Series of LED internal papers used to provide information for technical use of the QWI, ECF and Business Register.
- <u>Technical Papers</u>: Series of continuing LED technical papers since 2000.
- Presentations: Series of over 10 presentations on LED topics since 2002.
- <u>Newsletters</u>: Published twice a year to provide basic updates since 2001.
- <u>Archives</u>: Including discontinued brochures, past information documents, and early fact sheets.

http://lehd.dsd.census.gov

U.S. Census Bureau Longitudinal Employer Household Dynamics Home Local Employment Dynamics Data Tools Research Library About Us Site Map | Feedback Print Search OUICK I INKS WHAT'S NEW? O&A OWI Online ▶ 05/31/06: On The Map Version 1.1 Released ▶ Who Started LEHD? ▶ Industry Focus ▶ 04/26/06: ETA Hosts Webinar on LED ▶ What is LEHD? ▶ Partners Only ▶ 04/06/06: Final e-Learning Module Now Available: On the Map ▶ What is LED? On The Map • 03/29/06: On The Map Version 1.0.1 Released Workshop Presentations ▶ What are the OWI? ▶ e-Learning ▶ 03/22/06: Third e-Learning Module Now Available: OWI Online Site Tour [more...] [more...] Industry Focus Tour **QWI Online Tour** On the Map Tour DID YOU KNOW? **Local Employment Dynamics** Library Confidentiality and LED , State Partners, Profiles, Workshops, Training, ...that of the industries in Partnership, Partners Only Technical User Guides, Technical Papers, New Mexico that Presentations, Newsletters, Archives employed more than 500 Data Tools workers 65 years and QWI Online, On the Map, Industry Focus, **About Us** older in 2002, the highest Cornell Restricted Access Data Center, Mission, FAQs, Staff, Contact, Directions average monthly earnings Case Studies and Examples were from engineering. accounting and research (\$4.157)? Research Research Data Center, Confidentiality Research, Low Wage Work, Human Capital & Productivity, Transportation, Aging & Pension Benefits

<u>Home | Census 2000 | Subjects A to Z | FAQs | Search | Data Tools | Catalog | Quality | Privacy Policy | Policies | Contact Us</u>

LEHD Data Infrastructure

- Workers
 - Characteristics and history
- Employers
 - Characteristics and history
- Jobs
 - Relation between individual worker and employer
- Geographic
 - Residence and workplace geo-codes
- Business Register Bridge
- Other tools and data sources
 - Census 2000 link
 - Summary and Detailed Earnings Records
 - SSA benefit data
 - American Community Survey link

Clients

Businesses

Economic development agencies

Chambers of commerce

Federal, state and local agencies

Workforce Investment Boards

Chambers of commerce

School career counselors

Job search professionals

Businesses

Federal, state, and local agencies

Businesses

Transportation planners

Federal, state and local agencies

Questions

Where are the workers?

How much are they paid?

Current

Jobs Total payroll

Indicators

New

Jobs Total payroll Gross job gain Gross job loss Net jobs New hires Recalls Layoffs/quits

Individual earnings

Current

National State

County

Geography

Sub-county

New

National

State

County

Workforce investment area

Where are the jobs?

How much do they pay?

Who needs training?

How can workers get to their jobs?

Where should a business locate?

Demography

Current

None

New

Male Female Age categories 14-18

19-21

22-24 25-34

35-44

45-54

55-64

65 +

Immigrant Native born Location

Current

Workplace

New

Workplace

Residence

SBUREAU

21

What's Next for LEHD?

QWI

- Add states
- Add federal employment
- Add non-employers
- Link with occupation
- Add WIRED regions and other geographies
- Clustering
- MOU with BLS
- DVD data access
- LED user group?

On The Map/DataFerrett

- Add states
- Add 2004 data
- Add cross-state patterns
- Add WIRED regions and other geographies
- Virtual Research Data
 Center for data access
- Add stability
- Introduce hot reports and integrated products

Contact Us

Program Manager

Jeremy.S.Wu@census.gov

General Comments/Suggestions dsd.local.employment.dynamics@census.gov

Website http://lehd.dsd.census.gov