### Increasing the **Applicability of Local Employment Dynamics User Workshop** Presented by: **Gary Yakimov Senior Partner** Corporation for a Skilled workforce



#### What is LED?

#### \_ocal:

 State, County, sub-County, Metro Area, Workforce Investment Area

#### Employment:

- Demographics (age, gender)
- Industry (NAICS, SIC)
- Earnings

#### Dynamics:

- Timing (quarterly, historical back to 1990)
- Worker employment change (new hires, separations, turnover rates)
- Firm employment change (firm job gains and losses)



#### What LED is Not...

- Is not... a picture of "today" but rather about 9 months rear view image
- Is not... occupation specific but rather industry-based
- Is not... yet distinguishable by race or other demographic characteristics other than age and gender
- Is not... a static program or web page (pending new web screens, new nomenclature, new tools, new state partners, etc.)



## LED Quarterly Workforce Indicators

- Total Employment
- Net Job Flows
- Job Creation
- New Hires
- Separations
- Turnover
- Average Monthly Earnings
- Average New Hire Earnings

All Quarterly
Workforce
Indicators can be
analyzed at the
detailed industry
level

#### **How Does It Work?**

Censuses

Surveys

Administrative Records

Longitudinal Employer-Household Dynamics
Program
(LEHD)

Local
Transportation
Dynamics

Local
Employment
Dynamics

Local Immigration Dynamics

Maps

QWI Online

Reports

Clients **Questions Current** New Businesses **Current** Jobs Economic development Total payroll agencies Where are the workers? Gross job gain Jobs National Chambers of commerce Gross job loss Total payroll How much are they paid? Net jobs State Federal, state and local New hires agencies County Recalls Layoffs/quits Workforce Investment Individual earnings Boards **Indicators** Where are the jobs? Geography Chambers of commerce School career counselors How much do they pay? Job search professionals Who needs training? Businesses **Demography** Location New Federal, state, and local agencies Male Female How can workers **Current** Age categories get to their jobs? **Current** 14-18 Businesses Workplace 19-21 Where should a business Transportation planners 22-24 locate? 25-34 Federal, state and local None 35-44

agencies

Slide # 6

45-54 55-64 65+ Immigrant Native born New

National

State

Metro

County

Sub-county

WIA

New

Workplace

Residence



## Role of State Labor Market Information Offices

- Traditional LMI available
  - Industry and occupational employment and wages for current period, historical, and projected
  - Employment, unemployment, and labor force
  - Other information varies by state
- LMI Role in the LED Project
  - State consortium guiding the LED work
  - Technical assistance to Boards, others
  - Creation of Customized Reports



#### **State Partners**



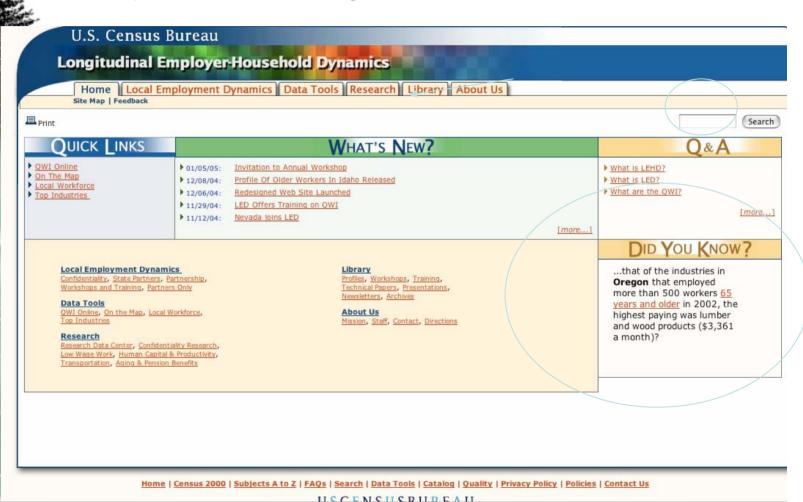


## What Questions Can LED Help Answer?

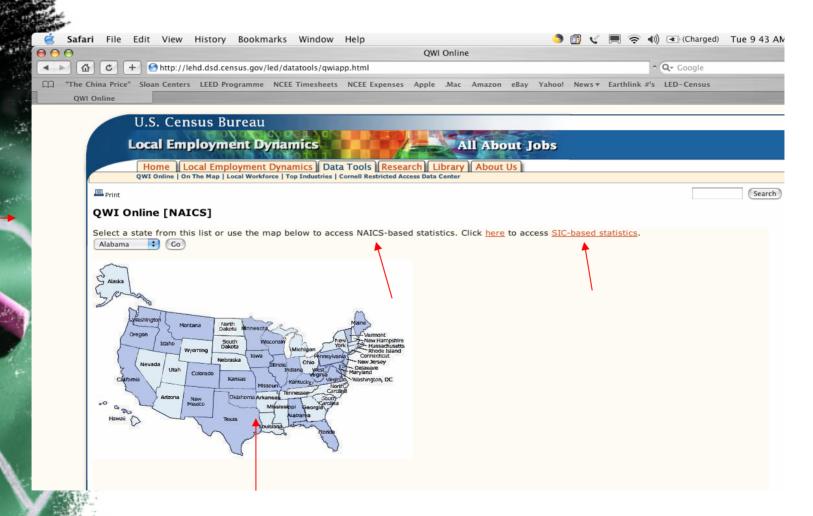
- "What are the industry sectors in which we should direct our time and resources?"
- "Which training programs should I concentrate on?"
- "What is my market penetration of job seekers?"
- "What is the pattern of new hires in my area?"
- "What are the industries hiring a particular demographic of worker?"
- "Where are the people in relation to the jobs?"
- "What is the overall labor market activity in my area?"
- "Where should I locate a new one-stop office?"
- ...and many more

### **LED Home Page**

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



### Selecting a State

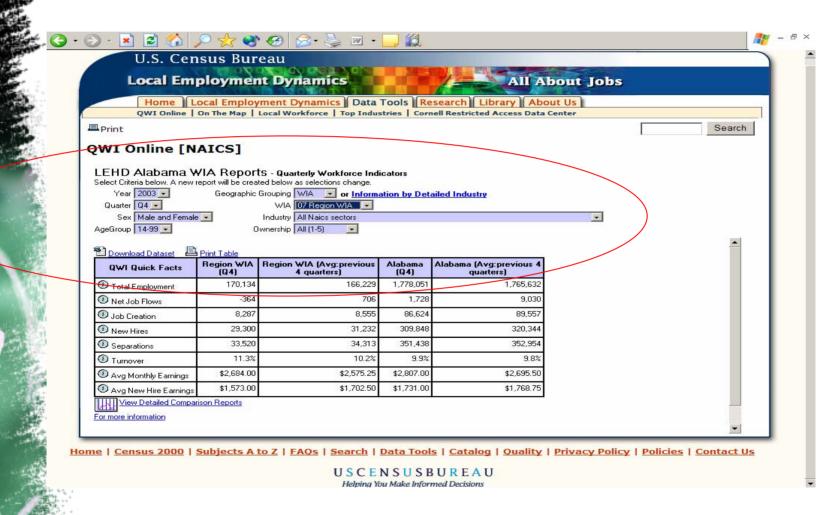




### **Major Data Modules**

- Quarterly Workforce Indicators (QWI)
  - Query Screen
  - Comparison Reports
- Industry Focus
  - Local Workforce
  - Top Industries
- On the Map
  - Commute Shed
  - Labor Shed

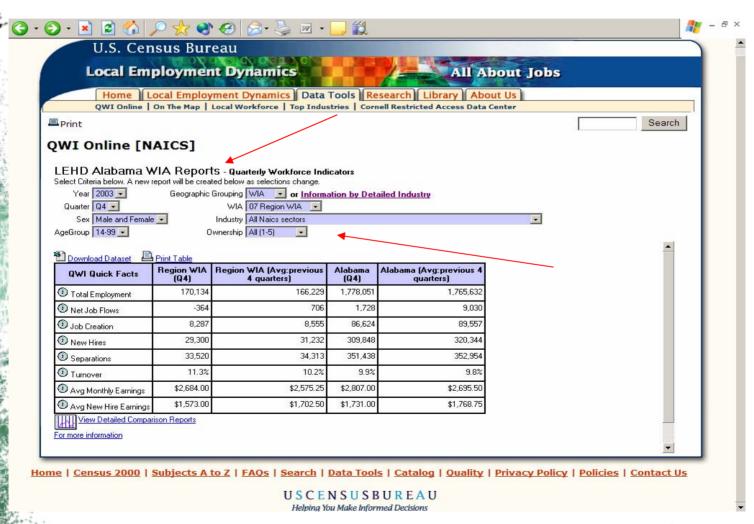
### **QWI Online**



### Indicators and Definitions

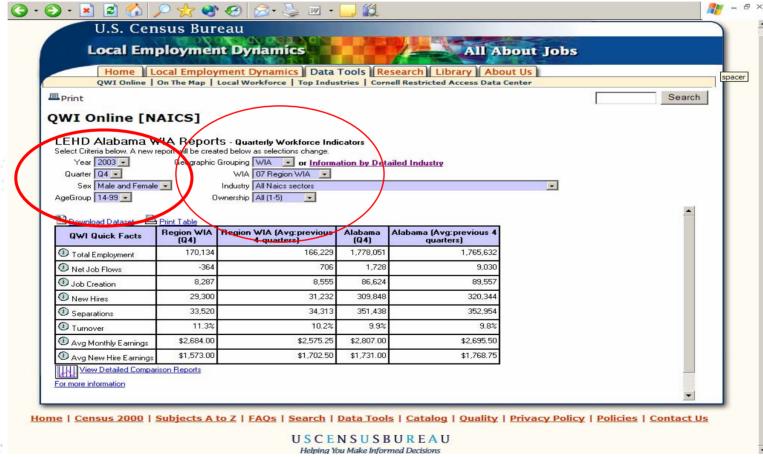
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				p   Local Workforce   Top Indi					
	■ Prin	t						Search	
	OWI	Online [N	ATCSI						
	QVVI	Omme [N	AICS						
				Orts - Quarterly Workforce Inc	dicators				
		Criteria below. A new i		created below as selections change.					
		rter Q4 -	Geogra	phic Grouping WIA or Inform WIA 07 Region WIA	nation by Det	ailed Industry			
		Sex Male and Female	-	Industry All Naics sectors			-		
		oup 14-99 •		Ownership All (1-5)					
		_							
	<b>8</b>	wnload Dataset 🕒							
	QV	WI Quick Facts	Region W (Q4)	/IA Region WIA (Avg:previous 4 quarters)	Alabama (Q4)	Alabama (Avg:previous 4 quarters)			
/	① To	otal Employment	170,	134 166,229	1,778,051	1,765,632			
/	① Ne	et Job Flows		364 706	1,728	9,030			
	① Jo	b Creation	8.	287 8,555	86,624	89,557			
	① Ne	ew Hires	29.	300 31,232	309,848	320,344			
	① Se	eparations	33	520 34,313	351,438	352,954			
	① Tu	urnover	11	.3% 10.2%	9.9%	9.8%			
	(1) Au	vg Monthly Earnings	\$2,68	4.00 \$2,575.25	\$2,807.00	\$2,695.50			
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	-	vg New Hire Earnings	\$1,57	3.00 \$1,702.50	\$1,731.00	\$1,768.75			
	① Av	vg New Hire Earnings			\$1,731.00	\$1,768.75			
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# **Accessing Detailed Industries by WIB Area**





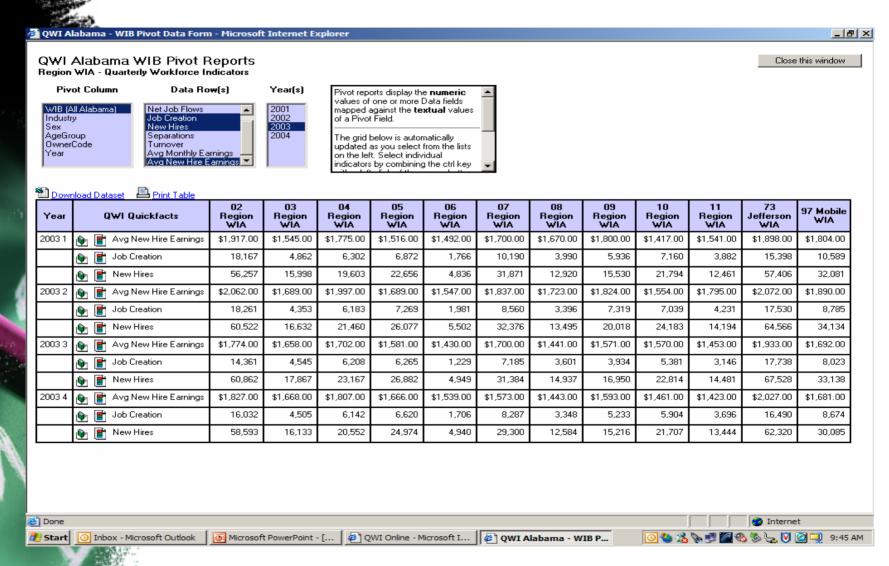
# Demographic and Time Queries



# Accessing Comparison Reports

	On the Map   1			nell Restricted Access Data	out Us	
Print Print		tocal Workforce   Top Indus	stries   Cori	nell Restricted Access Data	Center	Search
Control of the Contro						
QWI Online [N	AICS					
LEHD Alabama W	/IA Report	S - Quarterly Workforce Ind	icators			
Select Criteria below. A new re	eport will be creat	ed below as selections change.				
Year 2003 <u>▼</u>	Geographic (	Grouping WIA or Inform	ation by Det	ailed Industry		
Quarter Q4 🕶		WIA 07 Region WIA				
Sex Male and Female		Industry All Naics sectors			<u></u>	
AgeGroup 14-99 💌	U	wnership All (1-5)				_
Download Dataset	Print Table					_
		Region WIA (Avg:previous 4 quarters)	Alabama (Q4)	Alabama (Avg:previous 4 quarters)		
Total Employment	170,134	166,229	1,778,051	1,765,632		
Total Employment  Net Job Flows	170,134 -364	166,229 706	1,778,051 1,728	1,765,632 9,030		
				2		
Net Job Flows	-364	706	1,728	9,030		
Net Job Flows     Job Creation     New Hires	-364 8,287	706 8,555	1,728 86,624	9,030 89,557		
Net Job Flows     Job Creation     New Hires     Separations	-364 8,287 29,300	706 8,555 31,232	1,728 86,624 309,848	9,030 89,557 320,344		
Net Job Flows Job Creation New Hires Separations Turnover	-364 8,287 29,300 33,520	706 8,555 31,232 34,313	1,728 86,624 309,848 351,438	9,030 89,557 320,344 352,954		
Net Job Flows     Job Creation     New Hires     Separations	-364 8,287 29,300 33,520 11.3%	706 8,555 31,232 34,313 10,2%	1,728 86,624 309,848 351,438 9.9%	9,030 89,557 320,344 352,954 9,8% \$2,695,50		

### **Comparison Reports**





#### **QWI Review Exercises**

- What was the job creation for males in the 2nd quarter of 2004 for Region 7? How does that compare to women?
- How does the job creation for Region 7 in 2004-2ndQ compare to the 4 quarter average for the area?
- How do the average new hire earnings for the Montgomery Metro Area for 2003-4thQ compare to the State of Alabama for the same period?



### **Major Data Modules**

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  - Commute Shed
  - Labor Shed



### **Industry Focus – Key Questions**

What are the top industries in my area?

- On any one indicator?
- Across all indicators?

What are the workforce characteristics of key industries?

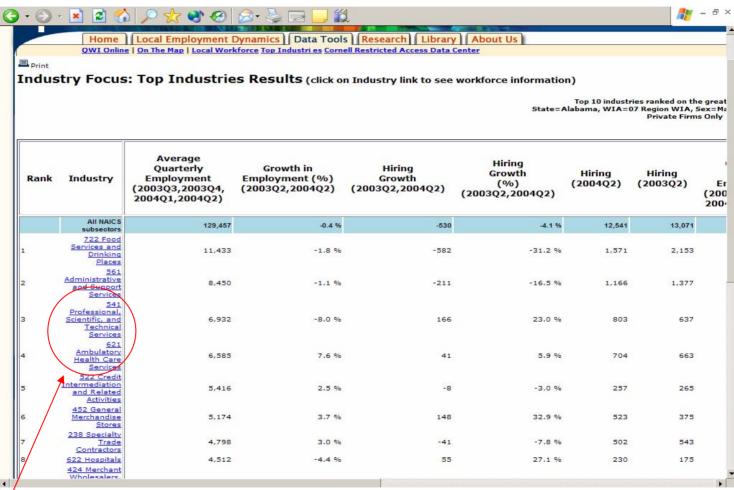
How do industries rank within or across various indicators?



# **Industry Focus: Indicator and Demographic Query**

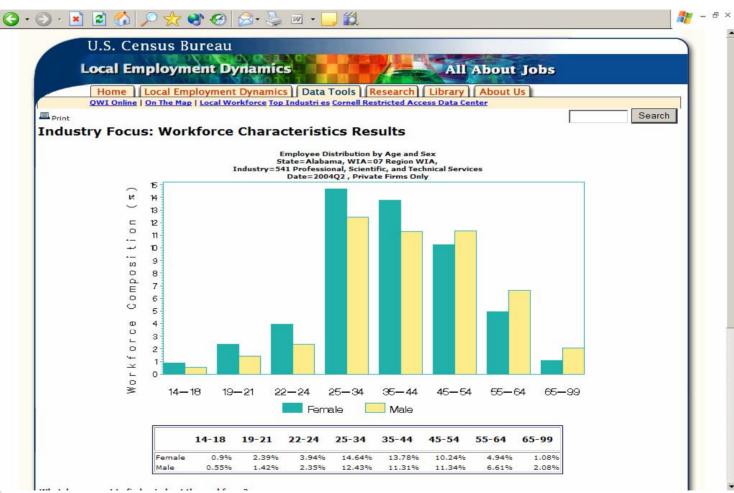
List the top 10 indu	istries ranked l	y the greatest	:			- 1
Ranking Indicator (	Select One)	Include in repo	ort (Select One or ore)			
•			ore <i>j</i> <b>⊽</b>	Employment ①		
С			V	Growth in Employment ①		
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С			ᅜ	Number of new hires ①		
0			_	Firm Job Change ①		
0			<u> </u>	Average monthly earnings for all		
0			<b>▽</b>	Growth in average monthly earning		
22 22 22 22 22 22 22 22 22 22 22 22 22	100			Average monthly earnings for ne	w hires	
Age and Sex: Geography:	Age 14		sex   Male ar	nd Female 💌		- 1
Entity:	State   C		© WIA 07 Region V	C County	C Metro Area	
Select Industry Level	C Industry S	ector © Indus	tries			- 1
Industry Sector: All	Sectors					- 1
View Report	Down	load CSV	Create PDI	F		

### **Industry Focus: Query Results**



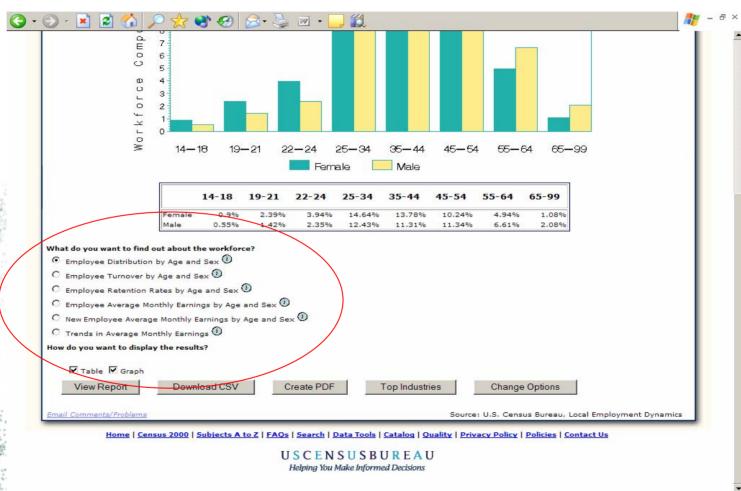
Click on hyperlink to see local workforce details

# Local Workforce: Employment Distribution





# Local Workforce: Other Key Indicators



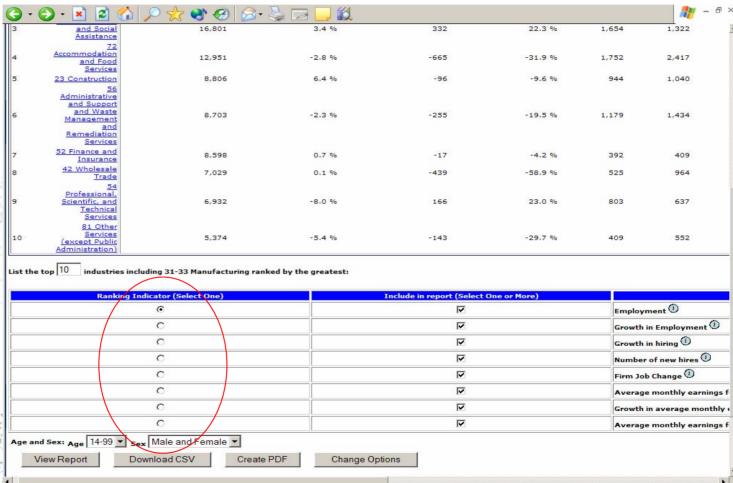


# Local Workforce: Trends in Average Monthly Earnings



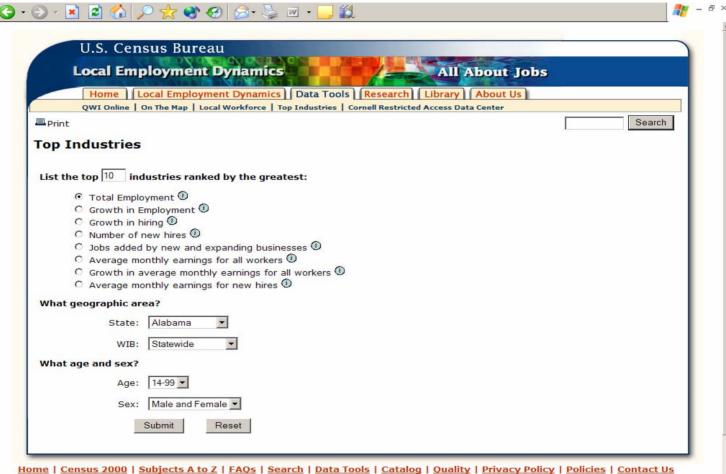


### **Change Rankings**





### **Top Industries**





# Identifying Top Industry Sectors: Region 7, 2004 1<sup>st</sup> Q

Handout: Region 7
Modeling, including use of Excel File

#### Top 5 Industries:

- Transportation Equipment Manufacturing
- Merchant Wholesalers, Durable Goods
- 3. Professional, Scientific, and Technical Services
- Electrical Equipment Manufacturing
- Ambulatory Health Care Services

Why Transportation Equipment Manufacturing?

13<sup>th</sup> Quarterly Employment

19<sup>th</sup> Growth in Employment

3<sup>rd</sup> New Hires

6<sup>th</sup> Hiring Growth Rate

1<sup>st</sup> Job Creation

19<sup>th</sup> Monthly Earnings

2<sup>nd</sup> Earnings Growth

2<sup>nd</sup> New Hire Earnings





## Industry Focus Review Exercises

- What is the top industry in your local area for:
  - Total Employment
  - Jobs added by New and Expanding Businesses
  - Average Monthly Earnings for all Workers
- What are the key characteristics of the local workforce in those industries?
- Based on this information, what policy or program decisions might be made using this information?



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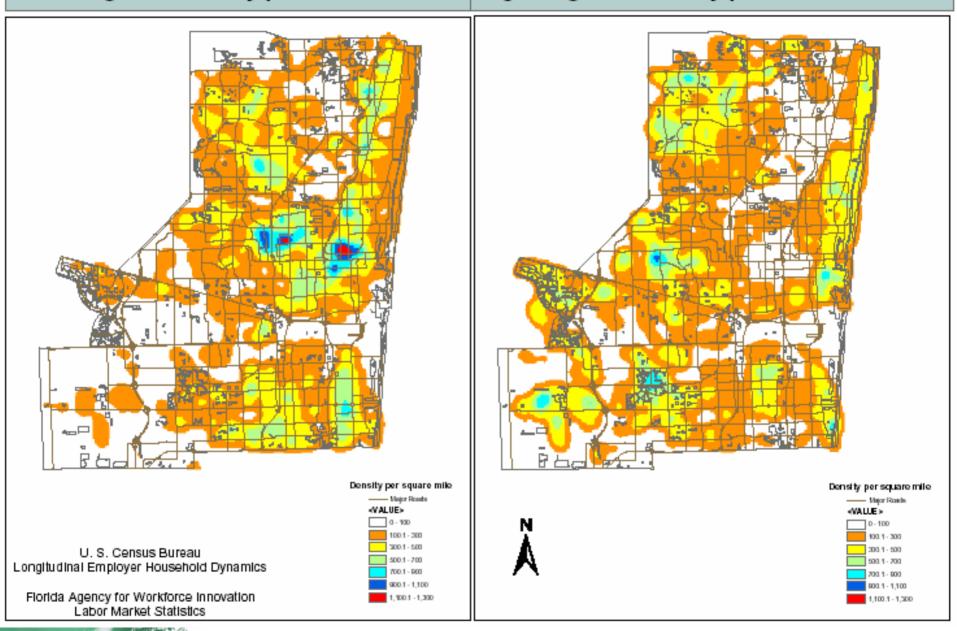


### On the Map

- Spatial relationship between where people work and where they live, and vice versa
- Core data is from the LED program

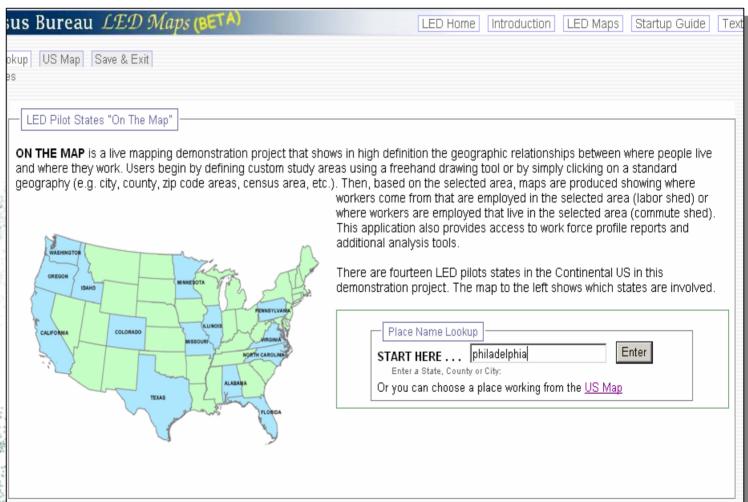
#### Broward County, Florida (1998)

Low wage workers by place of residence High wage workers by place of residence





### On the Map: Participating States





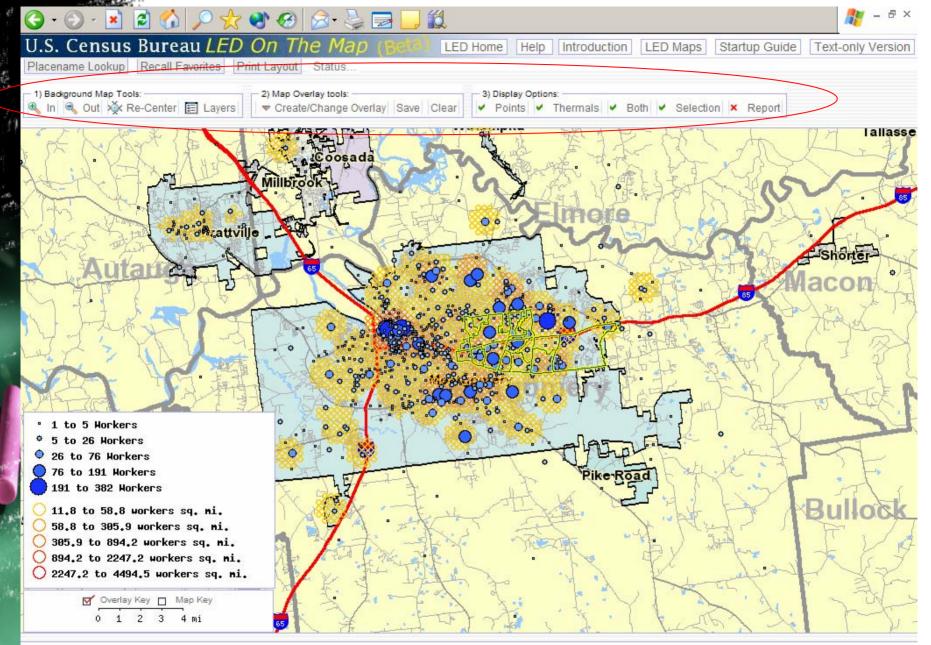
### On the Map: Query Screen

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ı	U.S. Census Bureau LED On The Map (ED Home Introduction LED Maps Startup Guide Text-only	Version
[	Place Name Lookup US Map Save & Exit  Y Place Names	
ſ	Place Name Lookup	
	Enter a State, County or City: montgomery Enter	
	Or you can choose a place working from the <u>US Map</u>	
	State Lookup Results  State(s): DONE	
	Highlight your choice from the list and press the button to continue	
	County Lookup Results	
	County of Montgomery, Illinois County of Montgomery, Alabama DONE County Map	
	Highlight your choice from the list and press the button to continue	
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	City of Montgomery, Alabama DONE  Highlight your choice from the list and press the button to continue	
L		
Ļ	W3C XHTML 1.0 SETFIREFOX SUPPLY OF US Census Bureau Site Designed and Developed by Excensus LLC	



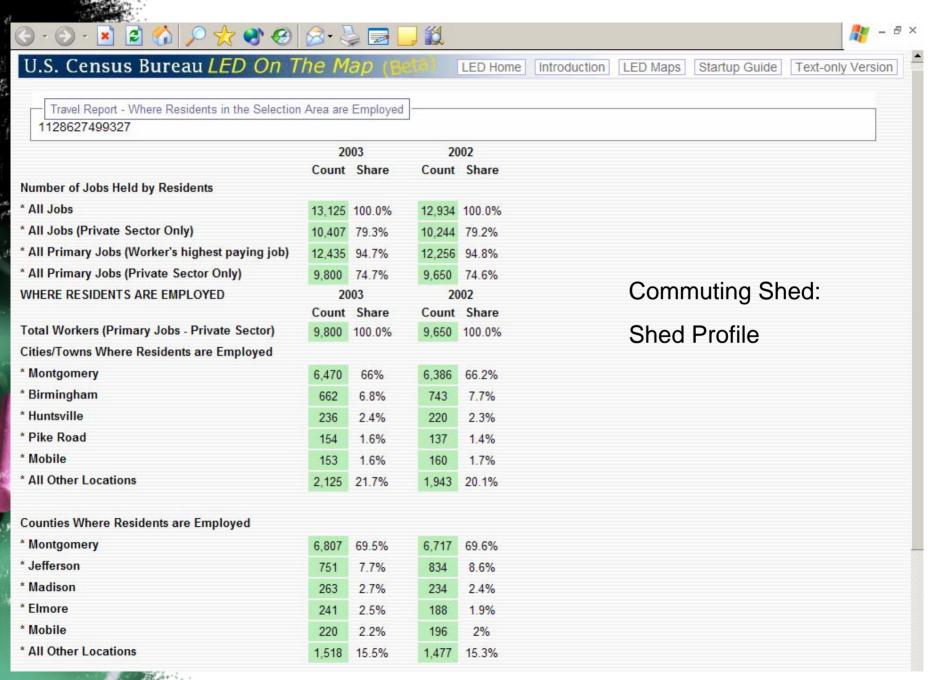
### **Commuting Shed**

Where do residents in an area commute to work?





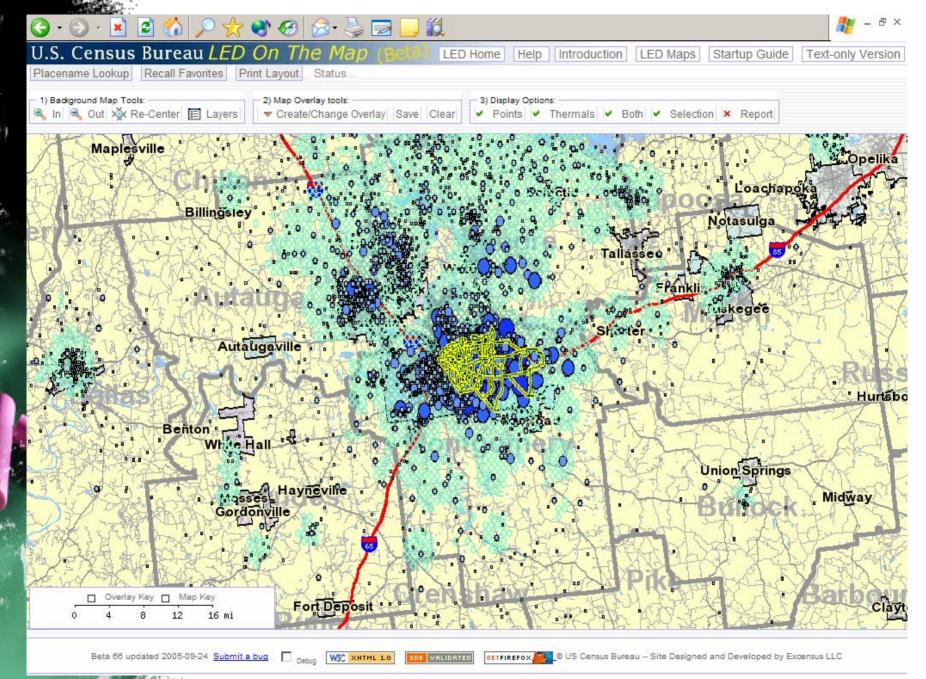
Workers by Age	_				
* Age 30 or younger	3,097	31.6%	2,893	30%	0 (: 0)
* Age 31 to 54	5,276	53.8%	5,437	56.3%	Commuting Shed:
* Age 55 or older	1,427	14.6%	1,320	13.7%	
					Area Profile
Workers by Earnings Paid					
* \$1,200 per month or less	2,546	26%	2,478	25.7%	
* \$1,201 to \$3,400 per month	4,015	41%	3,888	40.3%	
* More then \$3,400 per month	3,239	33.1%	3,284	34%	
Workers by Primary Industry (2-digit NAICS)					
* Agriculture, Forestry, Fishing and Hunting	35	0.4%	28	0.3%	
* Mining	9	0.1%	6	0.1%	
* Utilities	52	0.5%	73	0.8%	
* Construction	459	4.7%	539	5.6%	
* Manufacturing	919	9.4%	828	8.6%	
* Wholesale Trade	564	5.8%	616	6.4%	
* Retail Trade	1,562	15.9%	1,344	13.9%	
* Transportation and Warehousing	304	3.1%	236	2.4%	
* Information	299	3.1%	406	4.2%	
* Finance and Insurance	934	9.5%	958	9.9%	
* Real Estate and Rental and Leasing	237	2.4%	200	2.1%	
* Professional, Scientific, and Technical Services	996	10.2%	960	9.9%	
* Mgmt of Companies and Enterprises	89	0.9%	92	1%	
* Admin. & Support, Waste Mgmt and Remediation	425	4.3%	473	4.9%	
* Educational Services	337	3.4%	333	3.5%	
* Health Care and Social Assistance	1,212	12.4%	1,294	13.4%	
* Arts, Entertainment, and Recreation	165	1.7%	159	1.6%	
* Accommodation and Food Services	844	8.6%	732	7.6%	
* Other Services (excl. Public Admin.)	358	3.7%	373	3.9%	
* Public Administration	0	0%	0	0%	
					CI:-I # 20





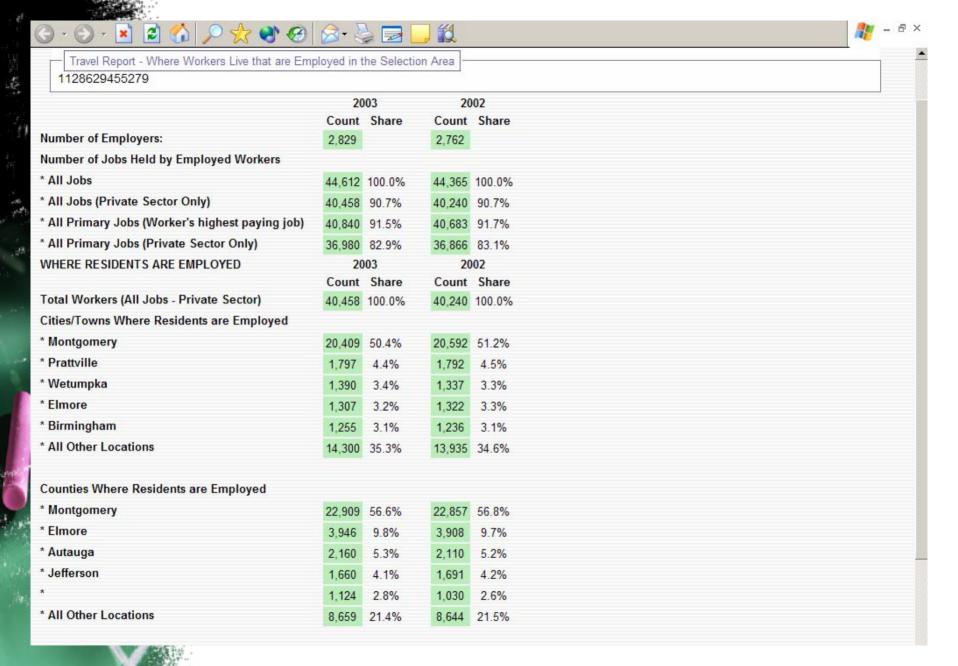
#### **Labor Shed**

Where do job holders working in a given area live?



**Slide # 41** 

* Age 30 or younger	13,809	34.1%	13,691	34%
* Age 31 to 54	21,660	53.5%	21,719	54%
* Age 55 or older	4,989	12.3%	4,830	12%
Jobs by Earnings Paid				
* \$1,200 per month or less	17,037	42.1%	17,229	42.8%
* \$1,201 to \$3,400 per month	15,950	39.4%	15,858	39.4%
* More then \$3,400 per month	7,471	18.5%	7,153	17.8%
Jobs by Primary Industry (2-digit NAICS)				
* Agriculture, Forestry, Fishing and Hunting	22	0.1%	23	0.1%
* Mining	0	0%	0	0%
* Utilities	264	0.7%	263	0.7%
* Construction	2,226	5.5%	2,128	5.3%
* Manufacturing	1,067	2.6%	1,061	2.6%
* Wholesale Trade	738	1.8%	786	2%
* Retail Trade	6,968	17.2%	6,880	17.1%
* Transportation and Warehousing	419	1%	373	0.9%
* Information	971	2.4%	1,083	2.7%
* Finance and Insurance	3,052	7.5%	3,064	7.6%
* Real Estate and Rental and Leasing	1,248	3.1%	1,277	3.2%
* Professional, Scientific, and Technical Services	2,907	7.2%	2,857	7.1%
* Mgmt of Companies and Enterprises	254	0.6%	287	0.7%
* Admin. & Support, Waste Mgmt and Remediation	3,578	8.8%	3,607	9%
* Educational Services	1,508	3.7%	1,434	3.6%
* Health Care and Social Assistance	6,624	16.4%	6,752	16.8%
* Arts, Entertainment, and Recreation	834	2.1%	877	2.2%
* Accommodation and Food Services	6,057	15%	5,686	14.1%
* Other Services (excl. Public Admin.)	1,721	4.3%	1,802	4.5%
* Public Administration	0	0%	0	0%





#### Review

- Current quarterly workforce indicators
  - QWI Query Screen
  - Comparison Reports
  - Industry Focus
    - Local Workforce
    - Top Industries
- On the Map
  - Commuting Shed
  - Labor Shed