

New Census Bureau Tools to Assist BRAC-Affected Communities

Presented by
Dr. Jeremy S. Wu
Local Employment Dynamics
US Census Bureau
May 2006

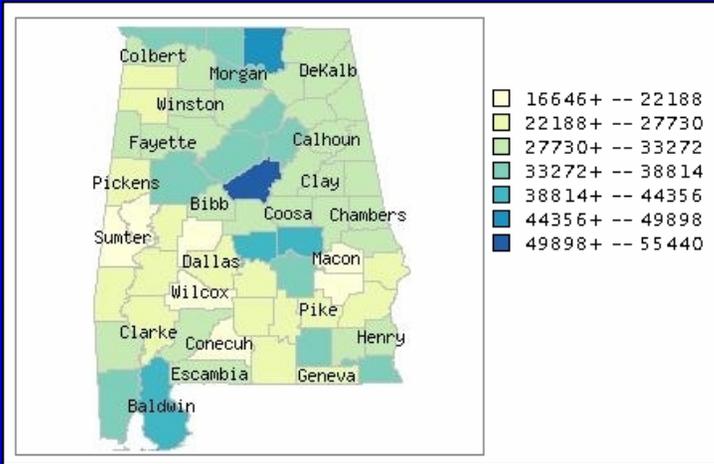


How Does BRAC Affect My Community?

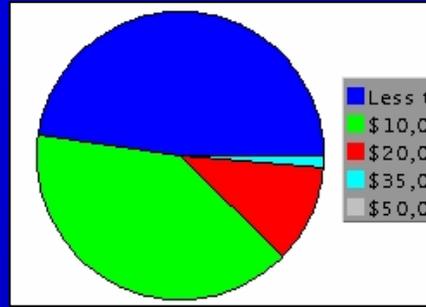
- Where have jobs been growing or declining?
- In what industries or economic clusters?
- What are the housing costs?
-
- Where do people live and work? How long are commute times?
- Their age, gender, and earnings distributions?
- What are the trends in pay?
-

Concept of Hot Reports

MAPS



GRAPHS



DYNAMICALLY UPDATED TEXT

Choose your Local Employment Dynamics selections:

Indicator:

Industry Sector:

Age group: Gender:

Quarter to map:

LED Map

Illinois map of counties showing quarterly workforce indicators for the period **2nd Quarter 2004**. The selection shows **Employees stable jobs: Average monthly earnings** for NAICS sector **51 Information**, filtered by an age group **22-44** created within the HotReport and **Male**.
NOTE: Map will not plot if data are not available for the selected quarter or industry.

TABLES

Indicator	1st Quarter 2003	2nd Quarter 2003
Employment: Counts	18,278	18,598
Employees stable jobs: Average monthly earnings	\$4,462	\$4,496
Hires All stable jobs: Average monthly earnings	\$2,274	\$2,918
Separations stable jobs: Average monthly earnings	\$1,758	\$1,584
Employment stable jobs: Counts	15,902	15,734
Firm Gain stable jobs: Counts	1,238	1,302
Firm Loss stable jobs: Counts	562	746
Firm Change stable jobs: Net Change	678	556
Separations stable jobs: Counts	1,404	1,688
Employment reference quarter: Counts	22,696	23,412

"WHAT IF?" CALCULATIONS

What If Analysis Capabilities

From Census 2000:
 You can choose an inflation rate to generate values for a more current year (based on year 2000 values) to be shown in the last column of the table below.
 In Autauga County, Alabama the estimated inflated value of owner occupied housing units is \$99,540 and the estimated inflated median gross rent is \$564, based on the specified inflation rate of 5.0 percent.

Enter new inflation rate:

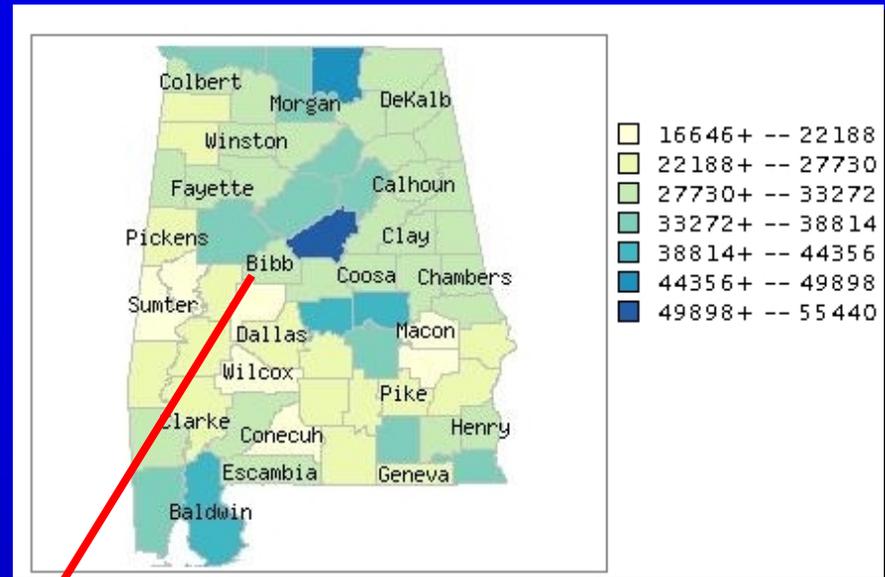
Sort row labels	Autauga County, Alabama	Estimated Inflated Value
Median value	\$94,800	\$99,540
Median gross rent	\$537	\$564

**Data Source: Decennial/Summary File 3/2000/Summary File 3

Hot Reports Features

- ✓ Live, interactive web pages
- ✓ Includes tables, maps, graphs, charts, ...
- ✓ Text updated wherever there is a change
- ✓ Covers jobs, transportation, housing, schools, ...
- ✓ Data sources from the Census Bureau – Local Employment Dynamics, American Community Survey, ...
- ✓ User makes selections to generate reports

Hot Reports
produce custom
maps and sortable
tables from user-
defined queries



County	1st Quarter 2003	2nd Quarter 2003	3rd Quarter 2003	4th Quarter 2003	1st Quarter 2004	2nd Quarter 2004	3rd Quarter 2004	4th Quarter 2004	Two-year Average	Two-year Average
Autauga County, Alabama	18,278	18,598	18,852	18,652	18,110	18,544	18,386	19,232	18,582	
Baldwin County, Alabama	77,260	81,932	85,120	81,126	79,940	85,884	91,770	83,198	83,279	
Barbour County, Alabama	17,364	16,958	17,752	17,144	16,784	17,010	17,344	17,580	17,167	
Bibb County, Alabama	4,618	4,810	4,574	5,000	4,602	5,106	5,060	5,138	4,864	
Blount County, Alabama	13,182	13,250	13,364	13,220	13,302	13,610	13,550	13,616	13,387	
Bullock County, Alabama	4,456	4,786 ⁹⁹	4,098 ⁹⁹	4,100 ⁹⁹	4,690	5,300	4,954	4,906	4,661	
Butler County, Alabama	11,286	11,092	10,876	11,008	11,124	11,096	11,046	11,008	11,067	
Calhoun County, Alabama	70,172	71,296	72,182	72,220	71,390	73,554	74,802	76,604	72,778	

Hot Reports Access Different Data Sets and Let Users Create Queries

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Local Employment Dynamics All About Jobs

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Labor Market and Economic Characteristics of Counties
Using Local Employment Dynamics and Census 2000
(Excluding Military and Federal Labor Data)

Choose your state: Alabama

Choose your Local Employment Dynamics selections:

Indicator: Employment: Counts
Industry Sector: Employment: Counts
Age group: Employees stable jobs: Average monthly earnings
Hires All stable jobs: Average monthly earnings
Separations stable jobs: Average monthly earnings
Quarter to map: Employment stable jobs: Counts
Firm Gain stable jobs: Counts
Firm Loss stable jobs: Counts
Firm Change stable jobs: Net Change
Separations stable jobs: Counts
LED Map: Employment reference quarter: Counts

Choose your Census 2000 Map Theme:
Median household income in 1999 (dollars)
Total: Female: 18 to 64 years: Civilian:
Total: Occupied Housing Units
Total: Vacant Housing Units
Median year housing unit built
Median gross rent -dollars (renter-occupied housing units)
Median value -dollars (owner-occupied housing units)
Travel time to work: Less than 30 minutes
Travel time to work: 30 to 44 minutes
Travel time to work: 45 to 59 minutes
Travel time to work: 60 or more minutes
Media... household income in 1999 (dollars)

Alabama map of counties showing quarterly workforce indicators for the period **Two-year Average**. The selection shows **Employment: Counts** for NAICS sector **All industry groups**, filtered by an age group **14-99** created within the HotReport and **Male and Female**.
NOTE: Map will not plot if data are not available for the selected quarter or industry.

Data from LED

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Labor Market and Economic Characteristics of Counties
Using Local Employment Dynamics and Census 2000
(Excluding Military and Federal Labor Data)

Choose your state: Alabama

Choose your Local Employment Dynamics selections:

Indicator: Employment: Counts
Industry Sector: All industry groups
Age group: 14-99 Gender: Male and Female
Quarter to map: Two-year Average

Choose your Census 2000 Map Theme:
Median household income in 1999 (dollars)
Total: Female: 18 to 64 years: Civilian:
Total: Occupied Housing Units
Total: Vacant Housing Units
Median year housing unit built
Median gross rent -dollars (renter-occupied housing units)
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Alabama map of counties showing quarterly workforce indicators for the period **Two-year Average**. The selection shows **Employment: Counts** for NAICS sector **All industry groups**, filtered by an age group **14-99** created within the HotReport and **Male and Female**.
NOTE: Map will not plot if data are not available for the selected quarter or industry.

Data from Decennial Census

PROTOTYPE *Hot Report:* County Specific Data, Over Time

Select:

- ✓ State, County
- ✓ Industry
- ✓ Recoded Age Groups
- ✓ Gender

Features:

- ✓ Calculation within Hot Report to create averages
- ✓ Calculation on the Web page to do math
- ✓ Active text

U.S. Census Bureau
Local Employment Dynamics **All About Jobs**

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*** PROTOTYPE ONLY ***

**Labor Market and Economic Characteristics by County,
Using Local Employment Dynamics and Census 2000**

Choose your state:

Choose your county:

Choose your Local Employment Dynamics selections:

Industry Sector:

Age group: Gender:

From Census 2000:
In Autauga County, Alabama the median value of owner occupied housing units in 2000 was \$94,800 and the median gross rent was \$537. These numbers, along with an inflated value calculated using a 5.0 percent inflation rate, are shown in the table below. You can change the inflation rate to see the estimated values for the changed rate.

Enter new inflation rate:

Housing Cost	Autauga County, Alabama	Estimated Inflated Value
Median value	\$94,800	\$99,540
Median gross rent	\$537	\$564

**Data Source: Decennial/Summary File 3/2000/Summary File 3

Workforce indicators for Autauga County, Alabama for NAICS sector All industry groups, filtered by age = Military Ages w/ all ages and gender = Male and Female, by quarter for 2003-2004, including a two-year average of each indicator, calculated within the HotReport.

Indicator	1st Quarter 2003	2nd Quarter 2003	3rd Quarter 2003	4th Quarter 2003	1st Quarter 2004	2nd Quarter 2004	3rd Quarter 2004	4th Quarter 2004	Two-year Average
Employment: Counts	18,278	18,598	18,852	18,652	18,110	18,544	18,386	19,232	18,582
Employees stable jobs:									
Average monthly earnings	\$4,462	\$4,496	\$4,488	\$4,708	\$4,546	\$4,620	\$4,744	\$4,908	\$4,622
Hires All stable jobs:									
Average monthly earnings	\$2,274	\$2,918	\$2,770	\$2,738	\$2,596	\$2,570	\$2,614	\$2,750	\$2,654
Separations stable jobs:									
Average monthly earnings	\$1,756	\$1,584	\$2,050	\$2,100	\$1,868	\$1,514	\$1,654	\$1,728	\$1,782
Employment stable jobs:									
Counts	15,902	15,734	15,610	15,838	15,614	15,810	15,388	16,528	15,803
Firm Gain stable jobs:									
Counts	1,238	1,302	1,072	1,208	1,238	942	858	1,484	1,168
Firm Loss stable jobs:									
Counts	562	746	808	720	630	772	654	516	676
Firm Change stable jobs:									
Net Change	678	556	264	488	608	168	204	970	492

PROTOTYPE *Hot Report:* Mapping Data by County

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*** PROTOTYPE ONLY ***

Labor Market and Economic Characteristics of Counties, Using Local Employment Dynamics and Census 2000

Choose your state:

Choose your Local Employment Dynamics selections:

Indicator:

Industry Sector:

Age group: Gender:

Quarter to map:

Generate Map and Table

Choose your Census 2000 Map Theme:

Generate New Map

Alabama map of counties showing quarterly workforce indicators for the period Two-year Average. The selection shows Employment: Counts for NAICS sector All industry groups, filtered by 14-99 and Male and Female.
NOTE: Map will not appear if there is no data for the selected quarter.

Alabama map of counties showing Median household income in 1999 (dollars from the 2000 decennial census).

1112+ -- 94862
94862+ -- 188612
188612+ -- 282362
282362+ -- 376112
376112+ -- 469862
469862+ -- 563612
563612+ -- 657361

16646+ -- 22188
22188+ -- 27730
27730+ -- 33272
33272+ -- 38814
38814+ -- 44356
44356+ -- 49898
49898+ -- 55440

Select:

- ✓ State
- ✓ Local Employment Dynamics Quarterly Workforce Indicator
- ✓ Recoded Age Groups
- ✓ Gender
- ✓ Quarter/Year

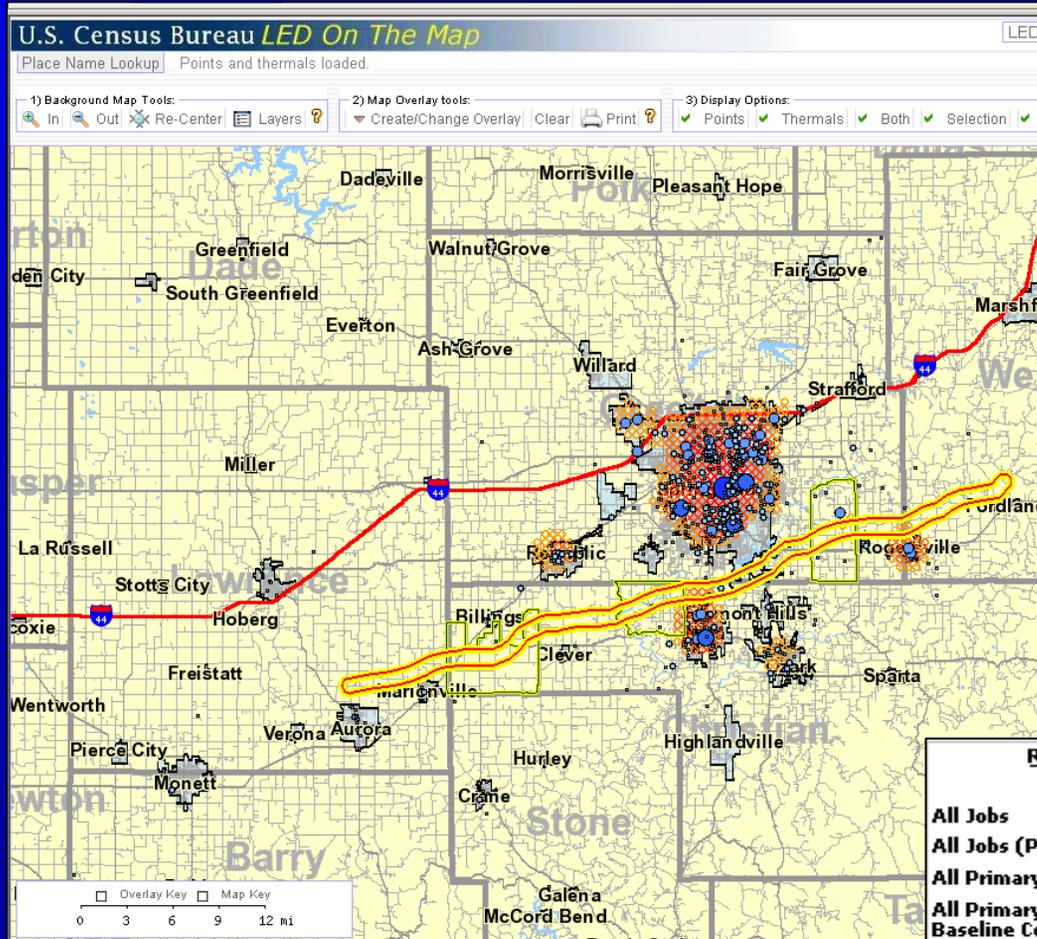
Features:

- ✓ Second data source
- ✓ Active (replacement) text

LED On the Map: Where People Work

Springfield, MO Tornado Track

March 12, 2006



Workers by Industry Type (2-digit NAICS)	2003	
	Count	Share
* Agriculture, Forestry, Fishing and Hunting	5	0.3%
* Mining	1	0.1%
* Utilities	3	0.2%
* Construction	134	8.6%
* Manufacturing	195	12.5%
* Wholesale Trade	132	8.5%
* Retail Trade	230	14.8%
* Transportation and Warehousing	79	5.1%
* Information	54	3.5%
* Finance and Insurance	82	5.3%
* Real Estate and Rental and Leasing	25	1.6%
* Professional, Scientific, and Technical Services	70	4.5%
* Management of Companies and Enterprises	35	2.2%
* Administration & Support, Waste Management and Remediation	76	4.9%
* Educational Services	13	0.8%
* Health Care and Social Assistance	202	13%
* Arts, Entertainment, and Recreation	23	1.5%
* Accommodation and Food Services	124	8%
* Other Services (excluding Public Administration)	74	4.8%
* Public Administration	0	0%

Resident Held Jobs by Category	2003	
	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%

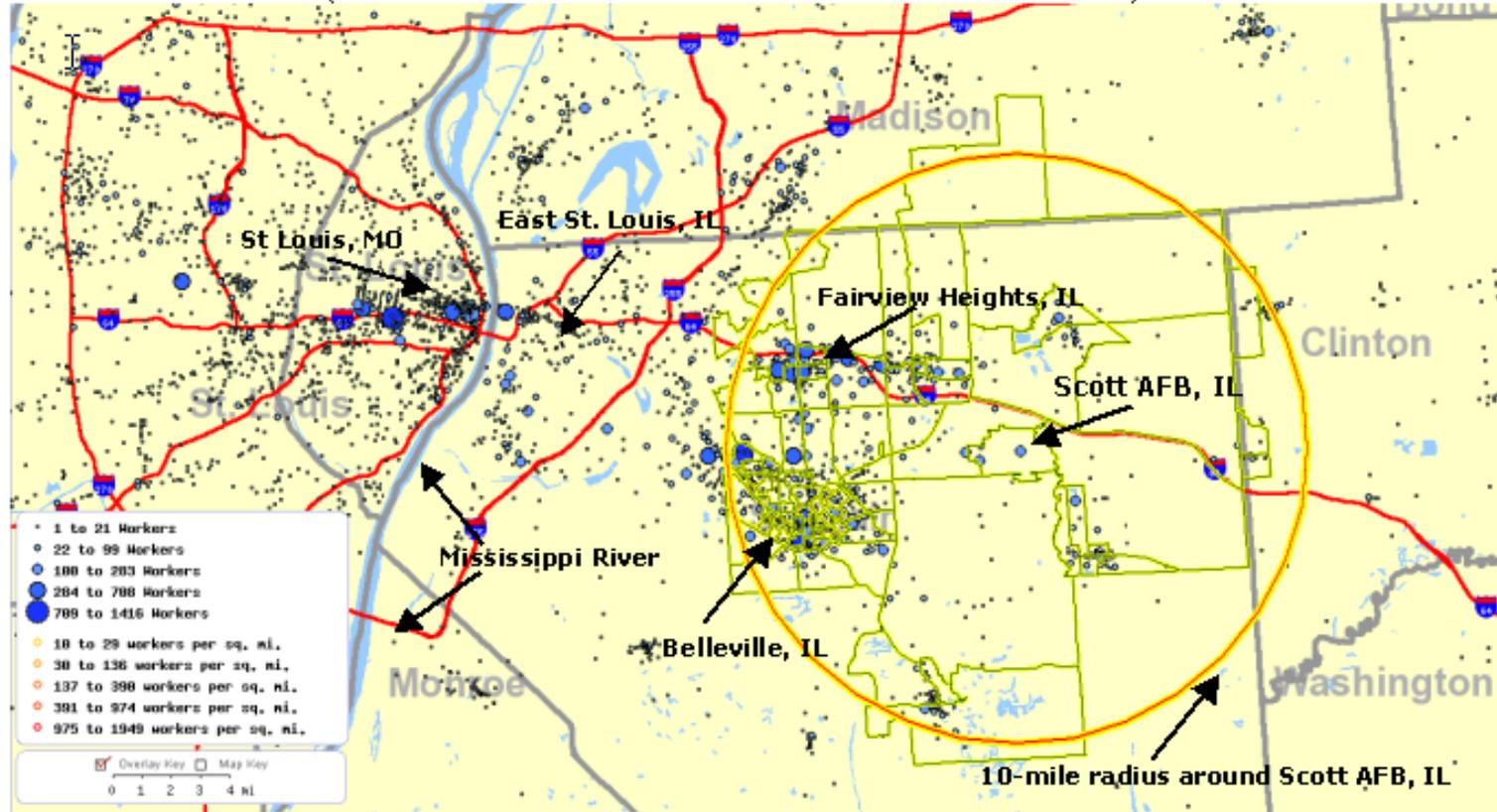
Workers by Earnings Paid	2003	
	Count	Share
\$1,200 per month or less	452	29%
\$1,201 to \$3,400 per month	674	43.3%
More then \$3,400 per month	431	27.7%

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

USCENSUSBUREAU

Where Should Scott AFB Recruit For Civilians Gained by BRAC?

Where Residents (who live within a 10-mile radius of Scott AFB) Work



PROTOTYPE *Hot Report:* Links to LED's "On the Map"

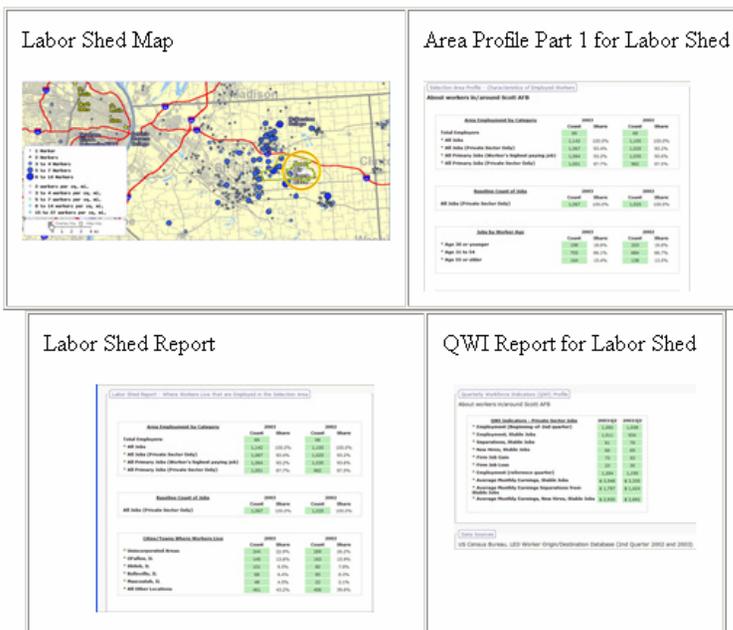
Commuting Patterns

Using Local Employment Dynamic's On the Map, you can begin to see the impacts of BRAC on the community surrounding a military installation. For this prototype we have provided examples for Scott AFB in St. Clair Co., IL. You can select:

- [where people work who live around the AFB](#) (a commute shed)
- [where workers live who work in or around the AFB](#) (a labor shed)

and you can then look at up to three different reports including a labor shed report (breakout of cities and counties where workers/residents live), an area profile report (breakout of characteristics, including age, salary and industry employment for workers/residents) and for labor sheds, a QWI report (10 market measures including wages, separations, total em

LED's OnTheMap: Where People Live Who Work in or Around Scott AFB (Labor Shed)

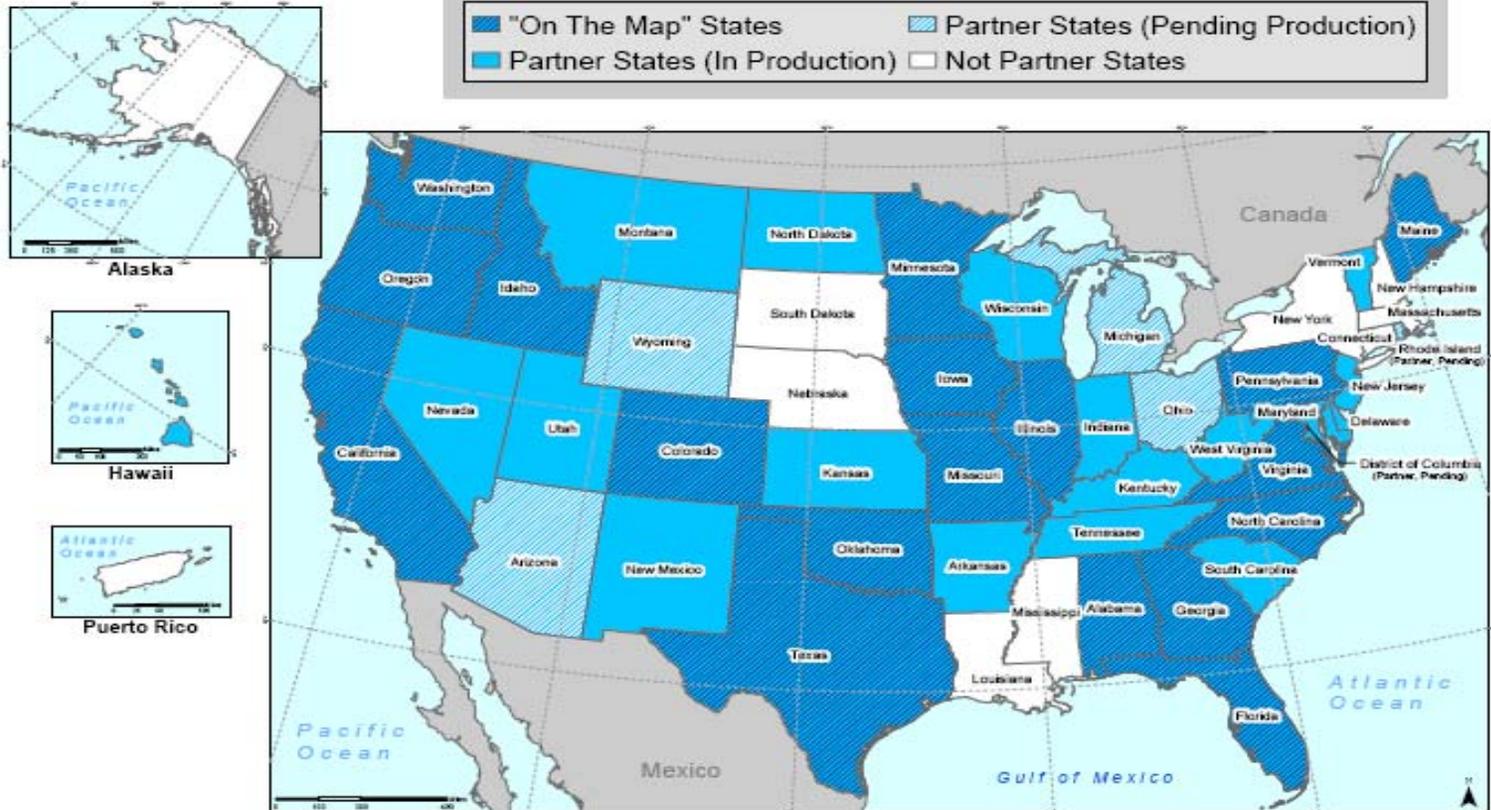


How the Census Bureau Makes All This Work?

- Local Employment Dynamics - A voluntary federal-state partnership to integrate data and produce web-based applications:
 - On The Map
 - Quarterly Workforce Indicators
 - Industry Focus
- DataFerrett - A browser and integration tool for 20+ local, state, and federal databases

42 LED Partner States 15 with Mapping Data

Local Employment Dynamics Partner States



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April 26, 2006

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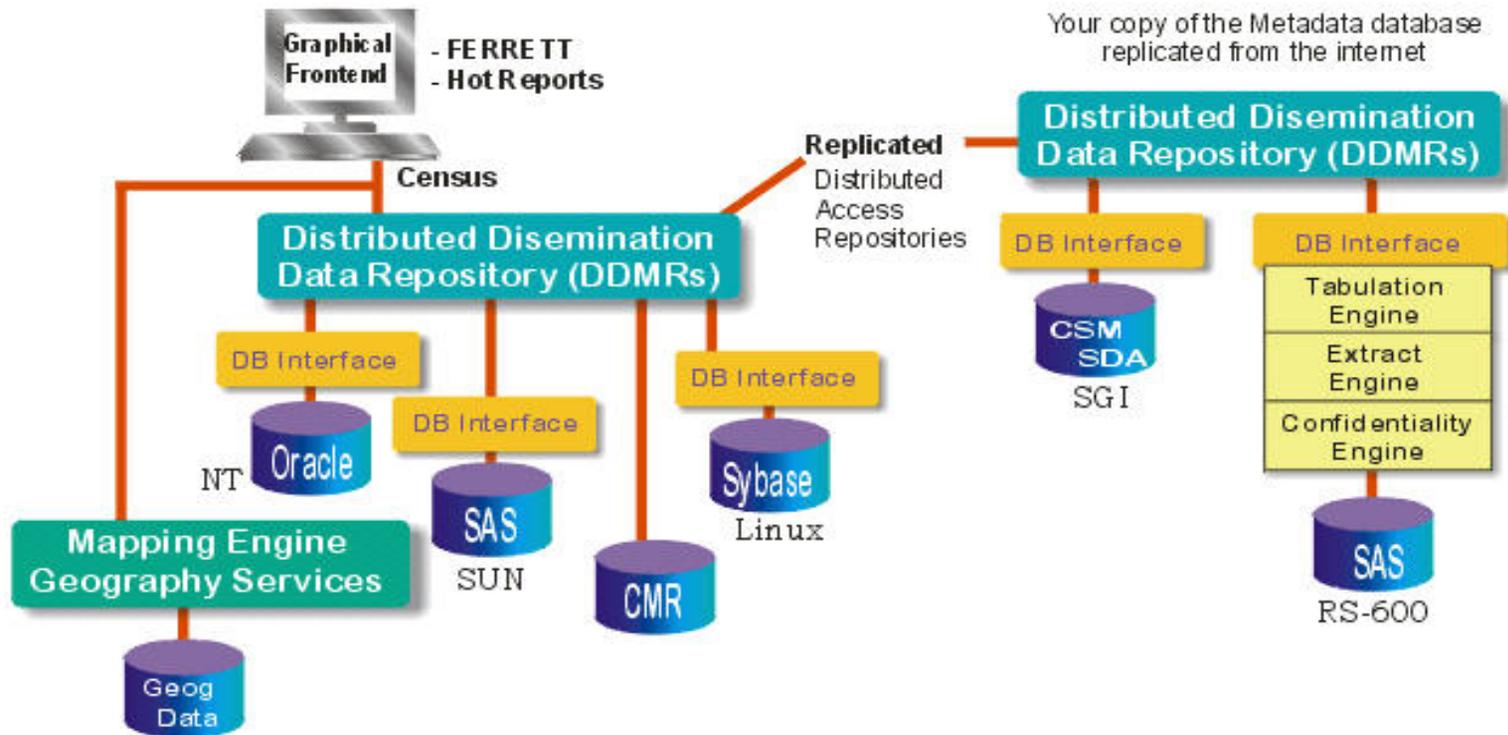
DataFerrett Features



- ✓ Data Manipulation and Recoding
- ✓ Frequencies and Cross Tabulations
- ✓ Multiple Dimension Tabulations
- ✓ Spreadsheet Formulas
- ✓ Mapping, Graphing, and Charting
- ✓ Publishing to HTML and PDF
- ✓ **Hot Reports** – interactive Web pages

The DataWeb Can Access All Sorts of Data Storage

DataWeb Architecture Distributed Services



On The Map

<http://lehd.dsd.census.gov>

- ✓ High definition, web-based, interactive mapping application
- ✓ Show where people work and live – home to work commuting patterns
- ✓ Select areas by freehand, buffer zones, circles, or geographical layers
- ✓ Multiple defined and custom geographical layers
- ✓ Companion reports on age, earnings, and industry
- ✓ Paired area and concentric circle analyses

VISIT THE CENSUS BUREAU'S BOOTH

Live Demo of *Hot Reports* for BRAC

Live Demo of LED's "On the Map"

Tell Us What You Think

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Comments/Suggestions
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