

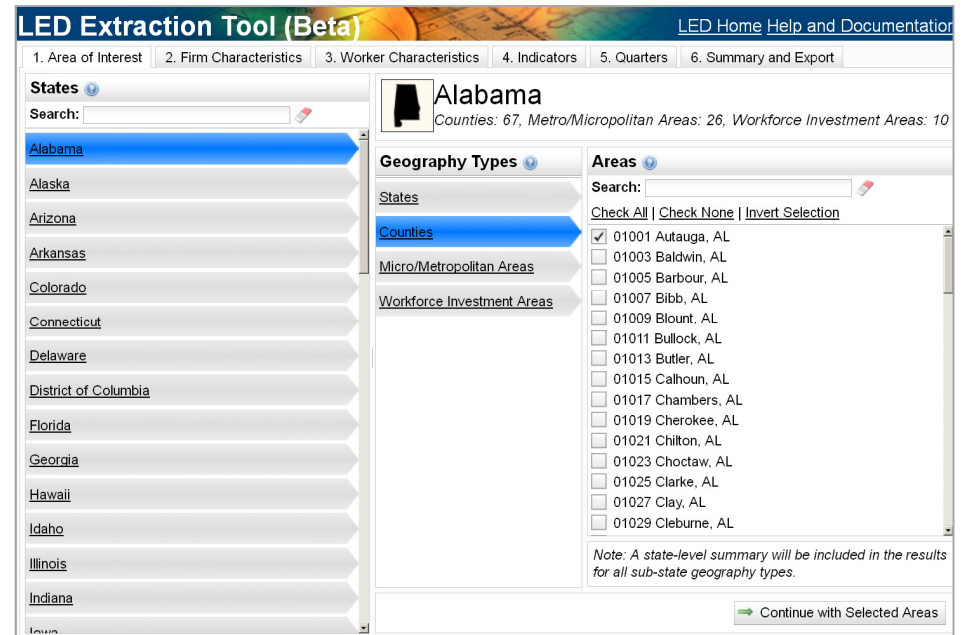
# Get the LED Out!

Introducing the LED Extraction Tool

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## What is the LED Extraction Tool?

- New access point for raw data products created through the Local Employment Dynamics Partnership
- Beta release makes Quarterly Workforce Indicators (QWI) available (LODES data coming in 2014)
- Streamlined interface allows users to select the exact columns and rows desired
- Raw data outputs (no maps, charts, or formatted tables)



# Why Build This Tool?

- Feedback from users!
- Make entire set of QWIs available (30 indicators for 50 partner states)
- Remove barriers to entry (due to the data's size and complexity)
- Enable wide variety of queries – single cell, clusters of industries/geographies, or full longitudinal history
- Broaden the user base for QWIs

Industry Detail Level	Firm Ownership	Firm Age	Firm Size
<input checked="" type="radio"/> NAICS Sectors <input type="radio"/> NAICS 3-digit Subsectors <input type="radio"/> NAICS 4-digit Industries	<input checked="" type="radio"/> All <input type="radio"/> All Private	<input checked="" type="checkbox"/> All Firm Ages <input type="checkbox"/> 0-1 Years <input type="checkbox"/> 2-3 Years <input type="checkbox"/> 4-5 Years <input type="checkbox"/> 6-10 Years <input type="checkbox"/> 11+ Years	<input checked="" type="checkbox"/> All Firm Sizes <input type="checkbox"/> 0-19 Employees <input type="checkbox"/> 20-49 Employees <input type="checkbox"/> 50-249 Employees <input type="checkbox"/> 250-499 Employees <input type="checkbox"/> 500+ Employees

# Application Design Goals

- Simple, clean interface
- Let the characteristics of the data drive users' progression through the interface
- Provide clear path through the application for users, but enable detours and roaming
- Make contextual help and documentation readily available

↓ Employment ⓘ	
<input checked="" type="checkbox"/> <b>Emp</b> Beginning of Quarter Employment: Counts	Estimate of the total number of jobs on the first day of the reference quarter. Beginning-of-quarter employment counts are similar to point-in-time employment measures, such as the QCEW (see: <a href="http://www.bls.gov/cew/">www.bls.gov/cew/</a> ).
<input type="checkbox"/> <b>EmpEnd</b> End of Quarter Employment: Counts	Estimate of the number of jobs on the last day of the quarter.
<input type="checkbox"/> <b>EmpS</b> Full-Quarter Employment (Stable): Counts	Estimate of stable jobs, i.e., the number of jobs that are held on both the first and last day of the quarter with the same employer. This is often, but not necessarily, the same as being employed for a full quarter (e.g., an on-call substitute teacher may have earnings in each of three consecutive quarters, but intermittently).
<input type="checkbox"/> <b>EmpTotal</b> Employment - Reference Quarter: Counts	This is a count of people employed in a firm at any time during the quarter. It is not a count of jobs. This measure may also be referred to as "flow" employment.

# Organization of the Application

1. Area of Interest

2. Firm Characteristics

3. Worker Characteristics

4. Indicators

5. Quarters

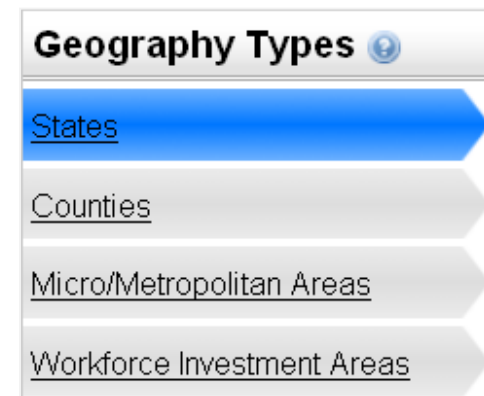
6. Summary and Export

- The LED Extraction Tool has been organized into six tabs: Area of Interest, Firm Characteristics, Worker Characteristics, Indicators, Quarters, and Summary and Export.
- Users can step through these tabs sequentially, or skip around to select parameters as desired.
- The Summary and Export tab compiles the selected parameters, provides an estimate on file size, generates the requested data, and makes the raw CSV (or ZIP) file available for download.

# Query Constraints




Due to the structure of the state-based QWI data, the following constraints exist in the LED Extraction Tool:

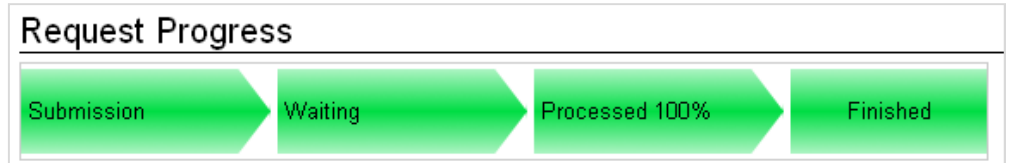
- Only one State and one Geography Type can be selected at a time.
- Industries can be selected from only one Industry Detail Level (NAICS Sector, NAICS Subsector, or NAICS Industry Group) at a time.
- Worker characteristics are available for Sex by Age, Sex by Education, or Race by Ethnicity in any one query.



# Summary and Export Tab

- File size and number of rows estimates are available before the request is submitted.
- Sequential job queue can handle 16 queries at a time.
- Follow the progress of a submitted query through the “Request Progress” status bar.
- All completed data queries from a user’s session are stored in the Query Results list.
- Metadata and labels for categorical variables are available in the “Metadata (ZIP)” and “CSV & Metadata (ZIP)” links.

Query Results
<b>Current</b>
ID: 6d34e5416be744a3b3f8b81b62e6f2ed 
Rows returned: 444
Uncompressed Size: Less than a Megabyte.
Download: <a href="#">CSV</a>   <a href="#">Metadata (ZIP)</a>   <a href="#">CSV &amp; Metadata (ZIP)</a>
<b>Previous</b>
ID: 066d1878354f4ae897c07bac630e9189 
Rows returned: 12
Uncompressed Size: Less than a Megabyte.
Download: <a href="#">CSV</a>   <a href="#">Metadata (ZIP)</a>   <a href="#">CSV &amp; Metadata (ZIP)</a>
ID: 4b368a7f24dc4ab5ae6e6e0c7317166c 
Rows returned: 4
Uncompressed Size: Less than a Megabyte.
Download: <a href="#">CSV</a>   <a href="#">Metadata (ZIP)</a>   <a href="#">CSV &amp; Metadata (ZIP)</a>



# QWIPU Data Schema Changes

- Geography and Industry codes now conform to Census standards (for simple data joining)
- Race and Ethnicity codes now conform to Census (and OnTheMap) standards
- Labels have been dropped to save space
- Consistent file layout across all data tables

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## Live Demo!

**LED Extraction Tool (Beta)** [LED Home](#) [Help and Documentation](#)

1. Area of Interest | 2. Firm Characteristics | 3. Worker Characteristics | 4. Indicators | 5. Quarters | 6. Summary and Export

**States**

Search:

- Alabama**
- Alaska
- Arizona
- Arkansas
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida
- Georgia
- Hawaii
- Idaho
- Illinois
- Indiana

**Alabama**  
Counties: 67, Metro/Micropolitan Areas: 26, Workforce Investment Areas: 10

**Geography Types**

- States
- Counties**
- Micro/Metropolitan Areas
- Workforce Investment Areas

**Areas**

Search:

[Check All](#) | [Check None](#) | [Invert Selection](#)

- 01001 Autauga, AL
- 01003 Baldwin, AL
- 01005 Barbour, AL
- 01007 Bibb, AL
- 01009 Blount, AL
- 01011 Bullock, AL
- 01013 Butler, AL
- 01015 Calhoun, AL
- 01017 Chambers, AL
- 01019 Cherokee, AL
- 01021 Chilton, AL
- 01023 Choctaw, AL
- 01025 Clarke, AL
- 01027 Clay, AL
- 01029 Cleburne, AL


*Note: A state-level summary will be included in the results for all sub-state geography types.*

[Continue with Selected Areas](#)

# Functionality In Development


- Option to add categorical variable labels to output CSV
- Additional information in Query Results list to help differentiate completed data queries
- Dynamic text in "States" help icon that informs users when a state is unavailable due to data loading
- Estimated wait time data query processing
- Save/Load settings functionality
- Status flag descriptions in metadata

Include Labels  
*Including labels will dramatically increase processing time and file size.*

Query Results 

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**Current**

DC, 1 State, 1 Sector, All, Sex/Age 

**Rows returned:** 4  
**Uncompressed Size:** Less than a Megabyte.  
**Download:**  
[CSV](#) | [Metadata \(ZIP\)](#) | [CSV & Metadata \(ZIP\)](#)

# Tentative Release Schedule

**3/28/2013** – Beta release of LED Extraction Tool 1.0 (QWI data only)

**4/30/2013** – Release version 1.1 (bug fixes and new functionality)

**7/31/2013** – Release version 1.2 (bug fixes and R2013Q2 data)

**2014** – Release version 2.0 (add LODES data)

# Thank You!

- Questions?
- Please submit feedback to  
[CES.QWI.Feedback@census.gov](mailto:CES.QWI.Feedback@census.gov)