

# **LEHD Public Use Data Schema v4.1b-draft**

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( [Printable version](#) )

The public-use data from the Longitudinal Employer-Household Dynamics Program, including the Quarterly Workforce Indicators (QWI) and Job-to-Job Flows (J2J), are available for download with the following data schema. These data are available as Comma-Separated Value (CSV) files through the LEHD website's Data page at <http://lehd.ces.census.gov/data/> .

This document describes the data schema for LEHD files. For each variable, a set of allowable values is defined. Definitions are provided as CSV files, with header variable definitions. The naming conventions of the data files is documented in [lehd\\_csv\\_naming.html](#).



#### Important

This specification is draft. Feedback is welcome. Please write us at [lars.vilhuber@cornell.edu](mailto:lars.vilhuber@cornell.edu).

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## 1 Extends

This version extends v4.0. Any file compliant with LEHD or QWI Schema v4.0 will also be compliant with this schema.

## 2 Supersedes

For the specified files, this is the first schema.

## 3 Basic Schema

Each file is structured as a CSV file. The first columns contain [\[identifiers\]](#), subsequent columns contain [\[indicators\]](#), followed by [status flags](#).

### 3.1 Generic structure

| Column name       |
|-------------------|
| [ Identifier1 ]   |
| [ Identifier2 ]   |
| [ Identifier3 ]   |
| [ ... ]           |
| [ Indicator 1 ]   |
| [ Indicator 2 ]   |
| [ Indicator 3 ]   |
| [ ... ]           |
| [ Status Flag 1 ] |
| [ Status Flag 2 ] |
| [ Status Flag 3 ] |
| [ ... ]           |

Note: A full list of indicators for each type of file are shown below in the [Indicators](#) section. While all indicators are included in the CSV files, only the requested indicators will be included in data outputs from the LED Extraction Tool.

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### 3.2 Identifiers

Records, unless otherwise noted, are parts of time-series data. Unique record identifiers are noted below, by file type. Identifiers without the year and quarter component can be considered a series identifier.

#### 3.2.1 Mapping for Identifiers

( [lehd\\_mapping\\_identifiers.csv](#) )

Each of the released files has a set of variables uniquely identifying records (*Identifiers*). The table below relates the set of identifier specifications to the released files. The actual CSV files containing the identifiers for each set are listed after this table. Each identifier can take on a specified list of values, documented in the section on [Categorical Variables](#).

| identifiers            | QWI | NQWI | J2J | J2JR | J2JOD | LODES |
|------------------------|-----|------|-----|------|-------|-------|
| lehd_identifiers_qwi   | 1   | 1    |     |      |       |       |
| lehd_identifiers_j2j   |     |      | 1   | 1    |       |       |
| lehd_identifiers_j2jod |     |      |     |      | 1     |       |

**3.2.2 Identifiers for j2j**

( lehd\_identifiers\_j2j.csv )

| Variable    | Type    | label                                  |
|-------------|---------|--|
| periodicity | Char(1) | Periodicity of report                  |
| seasonadj   | Char(1) | Seasonal Adjustment Indicator          |
| geo_level   | Char(1) | Group: Geographic level of aggregation |
| geography   | Char(8) | Group: Geography code                  |
| ind_level   | Char(1) | Group: Industry level of aggregation   |
| industry    | Char(5) | Group: Industry code                   |
| ownercode   | Char(3) | Group: Ownership group code            |
| sex         | Char(1) | Group: Gender code                     |
| agegrp      | Char(3) | Group: Age group code (WIA)            |
| race        | Char(2) | Group: race                            |
| ethnicity   | Char(2) | Group: ethnicity                       |
| education   | Char(2) | Group: education                       |
| firmage     | Char(1) | Group: Firm Age group                  |
| firmsize    | Char(1) | Group: Firm Size group                 |
| year        | Num     | Time: Year                             |
| quarter     | Num     | Time: Quarter                          |
| agg_level   | Num     | Aggregation Level Indicator            |

### 3.2.3 Identifiers for j2jod

( [lehd\\_identifiers\\_j2jod.csv](#) )

| Variable       | Type    | label  |
|----------------|---------|--|
| periodicity    | Char(1) | Periodicity of report                                |
| seasonadj      | Char(1) | Seasonal Adjustment Indicator                        |
| geo_level      | Char(1) | Group: Geographic level of aggregation               |
| geography      | Char(8) | Group: Geography code                                |
| ind_level      | Char(1) | Group: Industry level of aggregation                 |
| industry       | Char(5) | Group: Industry code                                 |
| ownercode      | Char(3) | Group: Ownership group code                          |
| sex            | Char(1) | Group: Gender code                                   |
| agegrp         | Char(3) | Group: Age group code (WIA)                          |
| race           | Char(2) | Group: race  |
| ethnicity      | Char(2) | Group: ethnicity                                     |
| education      | Char(2) | Group: education                                     |
| firmage        | Char(1) | Group: Firm Age group                                |
| firmsize       | Char(1) | Group: Firm Size group                               |
| year           | Num     | Time: Year   |
| quarter        | Num     | Time: Quarter  |
| agg_level      | Num     | Aggregation Level Indicator                          |
| geo_level_orig | Char(1) | Group: Geographic level of aggregation of origin job |
| geography_orig | Char(8) | Group: Geography code of origin job                  |
| ind_level_orig | Char(1) | Group: Industry level of aggregation of origin job   |
| industry_orig  | Char(5) | Group: Industry code of origin job                   |
| ownercode_orig | Char(3) | Group: Ownership group code of origin job            |
| firmage_orig   | Char(1) | Group: Firm Age group of origin job                  |
| firmsize_orig  | Char(1) | Group: Firm Size group of origin job                 |

### 3.2.4 Identifiers for qwi

( [lehd\\_identifiers\\_qwi.csv](#) )

| Variable    | Type    | label                                  |
|-------------|---------|--|
| periodicity | Char(1) | Periodicity of report                  |
| seasonadj   | Char(1) | Seasonal Adjustment Indicator          |
| geo_level   | Char(1) | Group: Geographic level of aggregation |
| geography   | Char(8) | Group: Geography code                  |
| ind_level   | Char(1) | Group: Industry level of aggregation   |
| industry    | Char(5) | Group: Industry code                   |
| ownercode   | Char(3) | Group: Ownership group code            |
| sex         | Char(1) | Group: Gender code                     |
| agegrp      | Char(3) | Group: Age group code (WIA)            |
| race        | Char(2) | Group: race                            |
| ethnicity   | Char(2) | Group: ethnicity                       |
| education   | Char(2) | Group: education                       |
| firmage     | Char(1) | Group: Firm Age group                  |
| firmsize    | Char(1) | Group: Firm Size group                 |
| year        | Num     | Time: Year                             |
| quarter     | Num     | Time: Quarter                          |



### 3.3 Indicators

The following tables and associated mapping files list the indicators available on each file. The '*Indicator Variable*' is the short name of the variable on the CSV files, suitable for machine processing in a wide variety of statistical applications. When given, the '*Alternate name*' may appear in related documentation and articles. The '*Status Flag*' is used to indicate publication or data quality status (see [Status Flags](#)). The '*Indicator Name*' is a more verbose description of the indicator.

#### 3.3.1 National QWI and state-level QWI

( [variables\\_qwipu.csv](#) )

| Indicator Variable | Alternate name | Status Flag   | Indicator Name   |
|--------------------|----------------|---------------|--|
| Emp                | B              | sEmp          | Beginning-of-Quarter Employment: Counts  |
| EmpEnd             | E              | sEmpEnd       | End-of-Quarter Employment: Counts  |
| EmpS               | F              | sEmpS         | Full-Quarter Employment (Stable): Counts   |
| EmpSpv             | Fprev          | sEmpSpv       | Full-Quarter Employment in the Previous Quarter: Counts                          |
| EmpTotal           | M              | sEmpTotal     | Employment - Reference Quarter: Counts   |
| HirA               | A              | sHirA         | Hires All: Counts (Accessions)   |
| HirN               | H1             | sHirN         | Hires New: Counts  |
| HirR               | R1             | sHirR         | Hires Recalls: Counts  |
| Sep                | S              | sSep          | Separations: Counts  |
| HirAEnd            | A2             | sHirAEnd      | End-of-Quarter Hires   |
| HirAEndR           | A2R            | sHirAEndR     | End-of-Quarter Hiring Rate   |
| SepBeg             | S2             | sSepBeg       | Beginning-of-Quarter Separations   |
| SepBegR            | S2R            | sSepBegR      | Beginning-of-Quarter Separation Rate   |
| HirAs              | A3             | sHirAs        | Hires All (Stable): Counts (Flows into Full-Quarter Employment)                  |
| HirNs              | H3             | sHirNs        | Hires New (Stable): Counts (New Hires to Full-Quarter Status)                    |
| SepS               | S3             | sSepS         | Separations (Stable): Counts (Flow out of Full-Quarter Employment)               |
| SepSnx             | S3R            | sSepSnx       | Separations (Stable): Next Quarter: Counts (Flow out of Full-Quarter Employment) |
| TurnOvrS           | FT             | sTurnOvrS     | Turnover (Stable)  |
| FrmJbGn            | JC             | sFrmJbGn      | Firm Job Gains: Counts (Job Creation)  |
| FrmJobLs           | JD             | sFrmJobLs     | Firm Job Loss: Counts (Job Destruction)  |
| FrmJbC             | JF             | sFrmJbC       | Firm Job Change: Net Change  |
| HirAEndRepl        | EI             | sHirAEndRepl  | Replacement Hires  |
| HirAEndReplr       | EIR            | sHirAEndReplr | Replacement Hiring Rate  |
| FrmJbGnS           | FJC            | sFrmJbGnS     | Firm Job Gains (Stable): Counts  |
| FrmJbLsS           | FJD            | sFrmJbLsS     | Firm Job Loss (Stable): Counts   |
| FrmJbCS            | FJF            | sFrmJbCS      | Job Change (Stable): Net Change  |
| EarnS              | ZW3            | sEarnS        | Full Quarter Employment (Stable): Average Monthly Earnings                       |
| EarnBeg            | ZW1            | sEarnBeg      | Beginning-of-Quarter Employment: Average Monthly Earnings                        |
| EarnHirAS          | ZWFA           | sEarnHirAS    | Hires All (Stable): Average Monthly Earnings                                     |
| EarnHireNS         | ZWFH           | sEarnHireNS   | Hires New (Stable): Average Monthly Earnings                                     |
| EarnSepS           | ZWFS           | sEarnSepS     | Separations (Stable): Average Monthly Earnings                                   |
| Payroll            | W1             | sPayroll      | Total Quarterly Payroll: Sum   |

**3.3.2 Job-to-job flow counts (J2J)**

( variables\_j2j.csv )

| Indicator Variable | Alternate name | Status Flag | Indicator Name   |
|--------------------|----------------|-------------|--|
| MHire              | all_doma2      | sHire       | Main Job Accessions - Counts   |
| MSep               | all_doms2      | sSep        | Main Job Separations - Counts  |
| MJobStart          | all_dest       | sMJobStart  | Main Job Starts - Counts (hires + main source of earnings changes)     |
| MJobEnd            | all_orig       | sMJobEnd    | Main Job Ends - Counts (separations + main source of earnings changes) |
| EEHire             | ee_doma2       | sEEHire     | EE Accessions - Counts   |
| EESep              | ee_doms2       | sEESep      | EE Separations - Counts  |
| AQHire             | aq_doma2       | sAQHire     | AQ Accessions - Short Duration Nonemployment Spell - Counts            |
| AQSep              | aq_doms2       | sAQSep      | AQ Separations - Short Duration Nonemployment Spell - Counts           |
| J2JHire            | eeall_doma2    | sJ2JHire    | Job-to-Job Accessions - Counts   |
| J2JSep             | eeall_doms2    | sJ2JSep     | Job-to-Job Separations - Counts  |
| NEHire             | ne_doma2       | sNEHire     | Main Job Accessions - Any Nonemployment Spell - Counts                 |
| ENSep              | en_doms2       | sENSep      | Main Job Separations - Any Nonemployment Spell - Counts                |
| NEPersist          | ne2_doma2      | sNEPersist  | Main Job Accessions - Persistent Nonemployment Spell - Counts          |
| ENPersist          | en2_doms2      | sENPersist  | Main Job Separations - Persistent Nonemployment Spell - Counts         |
| NEFullQ            | ne2p_doma2     | sNEFullQ    | Main Job Accessions - Full-qtr Nonemployment Spell - Counts            |
| ENFullQ            | en2p_doms2     | sENFullQ    | Main Job Separations - Full-qtr Nonemployment Spell - Counts           |
| MainB              | domB           | sMainB      | Main Job - Beginning of Quarter - Counts                               |
| MainE              | domE           | sMainE      | Main Job - End of Quarter - Counts                                     |

**3.3.3 Job-to-job flow rates (J2JR)**

( variables\_j2jr.csv )

| <b>Indicator Variable</b> | <b>Alternate name</b> | <b>Status Flag</b> | <b>Indicator Name</b>   |
|---------------------------|-----------------------|--------------------|---|
| MHireR                    | all_doma2_rate        | sMHireR            | Main Job Accessions - Rate                                      |
| MSepR                     | all_doms2_rate        | sMSepR             | Main Job Separations - Rate                                     |
| MJobStartR                | all_dest_rate         | sMJobStartRate     | Main Job Starts - Rate  |
| MJobEndR                  | all_orgin_rate        | sMJobEndRate       | Main Job Ends - Rate  |
| EEHireR                   | eea_rate              | sEEHireRate        | EE Accessions - Rate  |
| EESepR                    | ees_rate              | sEESepR            | EE Separations - Rate   |
| AQHireR                   | aq_doma2_rate         | sAQHireR           | AQ Accessions - Short Duration<br>Nonemployment Spell - Rate    |
| AQSepR                    | aq_doms2_rate         | sAQSepR            | AQ Separations - Short Duration<br>Nonemployment Spell - Rate   |
| J2JHireR                  | eeall_doma2_rate      | sJ2JHireR          | Job-to-Job Accessions - Rate                                    |
| J2JSepR                   | eeall_doms2_rate      | sJ2JSepR           | Job-to-Job Separations - Rate                                   |
| NEHireR                   | ne_doma2_rate         | sNEHireR           | Main Job Accessions - Any Nonemployment<br>Spell - Rate         |
| ENSepR                    | en_doms2_rate         | sENSepR            | Main Job Separations - Any Nonemployment<br>Spell - Rate        |
| NEPersistR                | ne2_doma2_rate        | sNEPersistR        | Main Job Accessions - Persistent<br>Nonemployment Spell - Rate  |
| ENPersistR                | en2_doms2_rate        | sENPersistR        | Main Job Separations - Persistent<br>Nonemployment Spell - Rate |
| NEFullQR                  | ne2p_doma2_rate       | sNEFullQR          | Main Job Accessions - Full-qtr Nonemployment<br>Spell - Rate    |
| ENFullQR                  | en2p_doms2_rate       | sENFullQR          | Main Job Separations - Full-qtr Nonemployment<br>Spell - Rate   |

**3.3.4 Job-to-job flow Origin-Destination (J2JOD)**( [variables\\_j2jod.csv](#) )

| Indicator Variable | Alternate name | Status Flag         | Indicator Name   |
|--------------------|----------------|---------------------|--|
| EE                 | ee             | sEE                 | Direct Job Flows - Counts  |
| AQHire             | aq_doma2       | sAQHire             | Main Job Accessions - Short Nonemployment Spell - Counts   |
| EEFullQ            | fee            | sEEFullQ            | Stable Job to Stable Job Direct Flows - Counts   |
| AQFullQHire        | faq_doma2      | sAQFullQHire        | Stable Job Accessions From Stable Jobs - Short Nonemployment Spell Between Jobs - Counts   |
| EEFullQEarn_dest   | fee_kfqearn    | sEEFullQEarn_dest   | Stable Job to Stable Job Direct Flow - Average Full-Quarter Earnings in First Full Quarter of Job  |
| EEFullQEarn_change | fee_dearn      | sEEFullQEarn_change | Stable Job to Stable Job Direct Flow - Average Percentage Real Earnings Change   |
| AQFullQEarn_dest   | faq_kfqearn    | sAQFullQEarn_dest   | Stable Job to Stable Job Direct Flow - Short Nonemployment Spell Between Jobs - Average Full-Quarter Earnings in First Full Quarter of Job |
| AQFullQEarn_change | faq_dearn      | sAQFullQEarn_change | Stable Job to Stable Job Direct Flow - Short Nonemployment Spell Between Jobs - Average Percentage Real Earnings Change                    |

### 3.4 Variability measures

The following tables and associated mapping files list the variability measures available on each file. The '*Variability measure*' is the short name of the variable on the CSV files, suitable for machine processing in a wide variety of statistical applications. When given, the '*Alternate name*' may appear in related documentation and articles. The '*Variable Name*' is a more verbose description of the variability measure.

Three variability measures are published:

- Total variability, prefixed by vt\_
- Degrees of freedom, prefixed by df\_
- Missingness ratio, prefixed by mr\_

A missing variability measure indicates a structural zero in the corresponding indicator.

#### 3.4.1 Generic structure

| Column name  |
|--|
| [ Identifier1 ]  |
| [ Identifier2 ]  |
| [ Identifier3 ]  |
| [ ... ]  |
| [ Total variation for Indicator 1 ]                      |
| [ Total variation for Indicator 2 ]                      |
| [ Total variation for Indicator 3 ]                      |
| [ ... ]  |
| [ Degrees of freedom for Indicator 1 ]                   |
| [ Degrees of freedom for Indicator 2 ]                   |
| [ Degrees of freedom for Indicator 3 ]                   |
| [ ... ]  |
| [ Missingness ratio for Indicator 1 ]                    |
| [ Missingness ratio for Indicator 2 ]                    |
| [ Missingness ratio for Indicator 3 ]                    |
| [ ... ]  |
| [ Average within-implicate variability for Indicator 1 ] |
| [ Average within-implicate variability for Indicator 2 ] |
| [ Average within-implicate variability for Indicator 3 ] |
| [ ... ]  |
| [ Between-implicate variability for Indicator 1 ]        |
| [ Between-implicate variability for Indicator 2 ]        |
| [ Between-implicate variability for Indicator 3 ]        |
| [ ... ]  |

Note: A full list of indicators for each type of file are shown in the [Indicators](#) section. In the tables below, only a sample of variability measures are printed, but the complete list is available in the linked CSV schema files.

### 3.4.2 National QWI and state-level QWI

( [variables\\_qwiv.csv](#) )

| Variability measure | Alternate name | Name of variable  |
|---------------------|----------------|---|
| vt_Emp              | vt_B           | Total variation of Beginning-of-Quarter Employment: Counts                        |
| vt_EmpEnd           | vt_E           | Total variation of End-of-Quarter Employment: Counts                              |
| vt_EmpS             | vt_F           | Total variation of Full-Quarter Employment (Stable): Counts                       |
| ...                 |                |   |
| df_Emp              | df_B           | Degrees of freedom for VT of Beginning-of-Quarter Employment: Counts              |
| df_EmpEnd           | df_E           | Degrees of freedom for VT of End-of-Quarter Employment: Counts                    |
| df_EmpS             | df_F           | Degrees of freedom for VT of Full-Quarter Employment (Stable): Counts             |
| ...                 |                |   |
| mr_Emp              | mr_B           | Missingness ratio for Beginning-of-Quarter Employment: Counts                     |
| mr_EmpEnd           | mr_E           | Missingness ratio for End-of-Quarter Employment: Counts                           |
| mr_EmpS             | mr_F           | Missingness ratio for Full-Quarter Employment (Stable): Counts                    |
| ...                 |                |   |
| vw_Emp              | vw_B           | Average within-implicate variability for Beginning-of-Quarter Employment: Counts  |
| vw_EmpEnd           | vw_E           | Average within-implicate variability for End-of-Quarter Employment: Counts        |
| vw_EmpS             | vw_F           | Average within-implicate variability for Full-Quarter Employment (Stable): Counts |
| ...                 |                |   |
| vb_Emp              | vb_B           | Between-implicate variability for Beginning-of-Quarter Employment: Counts         |
| vb_EmpEnd           | vb_E           | Between-implicate variability for End-of-Quarter Employment: Counts               |
| vb_EmpS             | vb_F           | Between-implicate variability for Full-Quarter Employment (Stable): Counts        |
| ...                 |                |   |

**3.4.3 Job-to-job flow counts (J2J)**

Soon.

**3.4.4 Job-to-job flow rates (J2JR)**

Soon.

**3.4.5 Job-to-job flow Origin-Destination (J2JOD)**

Soon.

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## 4 Categorical Variables

Categorical variable descriptions are displayed above each table, with the variable name shown in parentheses. Unless otherwise stated, every possible value/label combination for each categorical variable is listed. Please note that not all values will be available in every table.

### 4.1 agegrp

( [label\\_agegrp.csv](#) )

| agegrp | label            |
|--------|------------------|
| A00    | All Ages (14-99) |
| A01    | 14-18            |
| A02    | 19-21            |
| A03    | 22-24            |
| A04    | 25-34            |
| A05    | 35-44            |
| A06    | 45-54            |
| A07    | 55-64            |
| A08    | 65-99            |

### 4.2 education

( [label\\_education.csv](#) )

| education | label   |
|-----------|---|
| E0        | All Education Categories  |
| E1        | Less than high school   |
| E2        | High school or equivalent, no college                             |
| E3        | Some college or Associate degree                                  |
| E4        | Bachelor's degree or advanced degree                              |
| E5        | Educational attainment not available (workers aged 24 or younger) |

### 4.3 ethnicity

( [label\\_ethnicity.csv](#) )

| ethnicity | label                  |
|-----------|------------------------|
| A0        | All Ethnicities        |
| A1        | Not Hispanic or Latino |
| A2        | Hispanic or Latino     |

### 4.4 firmage

( [label\\_firmage.csv](#) )

| firmage | label         |
|---------|---------------|
| 0       | All Firm Ages |
| 1       | 0-1 Years     |
| 2       | 2-3 Years     |
| 3       | 4-5 Years     |

| <b>firmage</b> | <b>label</b>           |
|----------------|------------------------|
| 4              | 6-10 Years             |
| 5              | 11+ Years              |
| N              | Firm Age Not Available |

#### 4.5 firmsize

( [label\\_firmsize.csv](#) )

| <b>firmsize</b> | <b>label</b>            |
|-----------------|-------------------------|
| 0               | All Firm Sizes          |
| 1               | 0-19 Employees          |
| 2               | 20-49 Employees         |
| 3               | 50-249 Employees        |
| 4               | 250-499 Employees       |
| 5               | 500+ Employees          |
| N               | Firm Size Not Available |

#### 4.6 ownercode

( [label\\_ownercode.csv](#) )

| <b>ownercode</b> | <b>label</b>       |
|------------------|--------------------|
| A00              | All (1-5)          |
| A01              | Federal government |
| A05              | All Private (5)    |

#### 4.7 periodicity

( [label\\_periodicity.csv](#) )

| <b>periodicity</b> | <b>label</b>   |
|--------------------|----------------|
| A                  | Annual data    |
| Q                  | Quarterly data |

#### 4.8 quarter

( [label\\_quarter.csv](#) )

| <b>quarter</b> | <b>label</b>                               |
|----------------|--|
| 1              | 1st Quarter of the Year (January-March)    |
| 2              | 2nd Quarter of the Year (April-June)       |
| 3              | 3rd Quarter of the Year (July-September)   |
| 4              | 4th Quarter of the Year (October-December) |

#### 4.9 race

( [label\\_race.csv](#) )

| <b>race</b> | <b>label</b> |
|-------------|--------------|
| A0          | All Races    |

---

| race | label   |
|------|---|
| A1   | White Alone                                     |
| A2   | Black or African American Alone                 |
| A3   | American Indian or Alaska Native Alone          |
| A4   | Asian Alone                                     |
| A5   | Native Hawaiian or Other Pacific Islander Alone |
| A6   | Some Other Race Alone (Not Used)                |
| A7   | Two or More Race Groups                         |

#### 4.10 seasonadj

( [label\\_seasonadj.csv](#) )

| seasonadj | label                   |
|-----------|-------------------------|
| S         | Seasonally adjusted     |
| U         | Not seasonally adjusted |

#### 4.11 sex

( [label\\_sex.csv](#) )

| sex | label     |
|-----|-----------|
| 0   | All Sexes |
| 1   | Male      |
| 2   | Female    |

## 4.12 Industry

### 4.12.1 Industry levels

( [label\\_ind\\_level.csv](#) )

| ind_level | label                 |
|-----------|-----------------------|
| A         | All Industries        |
| S         | NAICS Sectors         |
| 3         | NAICS Subsectors      |
| 4         | NAICS Industry Groups |

### 4.12.2 Industry

( [label\\_industry.csv](#) )

Only a small subset of available values shown. The 2007 NAICS (North American Industry Classification System) is used for all years. For a full listing of all valid NAICS codes, see <http://www.census.gov/eos/www/naics/>.

| industry | label   |
|----------|---|
| 00       | All NAICS Sectors                             |
| 000      | All NAICS Subsectors                          |
| 0000     | All NAICS Industry Groups                     |
| 11       | Agriculture, Forestry, Fishing and Hunting    |
| 111      | Crop Production                               |
| 1111     | Oilseed and Grain Farming                     |
| 1112     | Vegetable and Melon Farming                   |
| ...      |   |
| 2382     | Building Equipment Contractors                |
| 2383     | Building Finishing Contractors                |
| 2389     | Other Specialty Trade Contractors             |
| 31-33    | Manufacturing                                 |
| 311      | Food Manufacturing                            |
| 3111     | Animal Food Manufacturing                     |
| 3112     | Grain and Oilseed Milling                     |
| 3113     | Sugar and Confectionery Product Manufacturing |
| ...      |   |

## 4.13 Geography

### 4.13.1 Geographic levels

( [label\\_geo\\_level.csv](#) )

| geo_level | label                      |
|-----------|----------------------------|
| C         | Counties                   |
| M         | Metropolitan/Micropolitan  |
| N         | National (50 States + DC)  |
| S         | States                     |
| W         | Workforce Investment Areas |

Geography labels are provided in separate files by state. Note that cross-state CBSA will have state-specific parts, and thus will appear in multiple files. A separate [label\\_fipsnum.csv](#) contains values and labels for all entities of geo\_level *n* or *s*, and is a summary of separately available files.

### 4.13.2 National and state-level values

( [label\\_fipsnum.csv](#) )

| geography | label                     |
|-----------|---------------------------|
| 00        | National (50 States + DC) |
| 01        | Alabama                   |
| 02        | Alaska                    |
| 04        | Arizona                   |
| 05        | Arkansas                  |
| 06        | California                |
| 08        | Colorado                  |
| ...       |                           |
| 45        | South Carolina            |
| 46        | South Dakota              |
| 47        | Tennessee                 |
| 48        | Texas                     |
| 49        | Utah                      |
| 50        | Vermont                   |
| 51        | Virginia                  |
| 53        | Washington                |

### 4.13.3 Detailed state and substate level values

For a full listing of all valid geography codes, see <http://www.census.gov/geo/maps-data/data/tiger.html>. Note about geography codes: Four types of geography codes are represented with this field. Each geography has its own code structure.

- State is the 2-digit [FIPS](#) code.
- County is the 5-digit FIPS code.
- Metropolitan/Micropolitan codes are constructed from the 2-digit state FIPS code and the 5-digit [CBSA](#) code provided by the Census Bureau's Geography Division.
  - In the QWI, the metropolitan/micropolitan areas are the state parts of the full CBSA areas.
  - In J2J, tabulations are based on the complete metropolitan/micropolitan area.
- The WIA code is constructed from the 2-digit state FIPS code and the 6-digit WIA identifier provided by LED State Partners.

The 2013 vintage of Census TIGER geography is used for all tabulations as of the 2014Q3 release.

**Important**

The above section should include hyperlinks to the appropriate reference.

---

| State | Format file            |
|-------|------------------------|
| AK    | label_geography_ak.csv |
| AL    | label_geography_al.csv |
| AR    | label_geography_ar.csv |
| AZ    | label_geography_az.csv |
| CA    | label_geography_ca.csv |
| CO    | label_geography_co.csv |
| CT    | label_geography_ct.csv |
| DC    | label_geography_dc.csv |
| DE    | label_geography_de.csv |
| FL    | label_geography_fl.csv |
| GA    | label_geography_ga.csv |
| HI    | label_geography_hi.csv |
| IA    | label_geography_ia.csv |
| ID    | label_geography_id.csv |
| IL    | label_geography_il.csv |
| IN    | label_geography_in.csv |
| KS    | label_geography_ks.csv |
| KY    | label_geography_ky.csv |
| LA    | label_geography_la.csv |
| MA    | label_geography_ma.csv |
| MD    | label_geography_md.csv |
| ME    | label_geography_me.csv |
| MI    | label_geography_mi.csv |
| MN    | label_geography_mn.csv |
| MO    | label_geography_mo.csv |
| MS    | label_geography_ms.csv |
| MT    | label_geography_mt.csv |
| NC    | label_geography_nc.csv |
| ND    | label_geography_nd.csv |
| NE    | label_geography_ne.csv |
| NH    | label_geography_nh.csv |
| NJ    | label_geography_nj.csv |
| NM    | label_geography_nm.csv |
| NV    | label_geography_nv.csv |
| NY    | label_geography_ny.csv |
| OH    | label_geography_oh.csv |
| OK    | label_geography_ok.csv |
| OR    | label_geography_or.csv |
| PA    | label_geography_pa.csv |
| RI    | label_geography_ri.csv |
| SC    | label_geography_sc.csv |
| SD    | label_geography_sd.csv |
| TN    | label_geography_tn.csv |
| TX    | label_geography_tx.csv |
| UT    | label_geography_ut.csv |
| VA    | label_geography_va.csv |
| VT    | label_geography_vt.csv |
| WA    | label_geography_wa.csv |
| WI    | label_geography_wi.csv |
| WV    | label_geography_wv.csv |
| WY    | label_geography_wy.csv |

### 4.14 Aggregation level

( [label\\_agg\\_level.csv](#) )

The linked file ([label\\_agg\\_level.csv](#) ) has columns indicating exactly which detailed variabes are included. Columns [geo\\_level](#) and [ind\\_level](#) are explained above.

| agg_level | worker_char      | firm_char | firm_orig_char | j2j | j2jr |
|-----------|------------------|-----------|----------------|-----|------|
| 1         |                  |           |                | 0   | 1    |
| 2         | Ethnicity        |           |                | 0   | 1    |
| 3         | Race             |           |                | 0   | 1    |
| 4         | Race * Ethnicity |           |                | 0   | 1    |
| 5         | Education        |           |                | 0   | 1    |
| 6         | Age              |           |                | 0   | 1    |
| 7         | Sex              |           |                | 0   | 1    |
| 8         | Sex * Education  |           |                | 0   | 1    |
| 9         | Sex * Age        |           |                | 0   | 1    |
| 10        |                  | Firm Size |                | 0   | 1    |



## 5 Status flags

( [label\\_flags.csv](#) )

Each status flag in the tables above contains one of the following valid values. The values and their interpretation are listed in the table below.



**Important**

Note: Currently, the J2J tables only contain status flags *-1* and *1*. Status flags with values 10 or above only appear in online applications, not in CSV files.

| flag | label  |
|------|--|
| -2   | no data available in this category for this quarter  |
| -1   | data not available to compute this estimate  |
| 1    | OK   |
| 5    | Value suppressed because it does not meet US Census Bureau publication standards.                            |
| 6    | Value calculated from other released measures - no significant distortion                                    |
| 7    | Value calculated from other released measures - some of which have significantly distorted data              |
| 9    | Data significantly distorted - fuzzed value released   |
| 10   | Aggregate of cells - no significant distortion   |
| 11   | Aggregate of cells not released because component cells do not meet U.S. Census Bureau publication standards |
| 12   | Aggregate of cells - some of which have significantly distorted data   |

## 6 Changes

### 6.1 This version from previous releases of this document

- 2015-02-25: corrected flag values
- 2015-02-25: documents are now identified by date, not revision

### 6.2 Version 4.1b-draft from 4.0

- added J2J, National QWI specs
- added QWI Variability specs

|  |
|--|
| This version: Wed Feb 25 10:59:36 EST 2015 |
|--|