LEHD Public Use Schema V4.3.0 - File and Directory
Naming Convention

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(Printable version)



#### **Important**

This document is not an official Census Bureau publication. It is compiled from publicly accessible information by Lars Vilhuber (Labor Dynamics Institute, Cornell University). Feedback is welcome. Please write us at lars.vilhuber@cornell.edu.

## 1 Purpose

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 <a href="http://lehd.ces.census.gov/data/">http://lehd.ces.census.gov/data/</a> and through LED Extraction Tool at <a href="http://ledextract.ces.census.gov/">http://ledextract.ces.census.gov/</a>.

This document describes the file and directory naming schema for LEHD-provided CSV files.

#### 2 Schema for Data File Contents

The contents (schema) for LEHD data files are described in lehd\_public\_use\_schema.pdf. The contents (schema) for shapefiles are described in lehd\_shapefiles.pdf.

#### 3 Extends

This version modifies a portion of the structure of the metadata. Many files compliant with LEHD or QWI Schema v4.2 or lower will also be compliant with this schema, but compatibility is not guaranteed.

# 4 Supersedes

This version supersedes V4.2, for files released as of R2018Q3

### 5 Basic Filename Schema

All files are preceded by a file type definition, followed by additional information on the aggregation level of the file, or some other identifier.

[TYPE]\_[DETAILS].[EXT]

( naming\_convention.csv )

type	Used By	Description
[type]_[id]	[type]_[id] qwix CSV files queried from the LED Extraction Tool at	
		http://ledextract.ces.census.gov/.
[type]_[geoh	[type]_[geohi]q[wdieqnw]r_[fwsi]/ (ggeiorajQj_[2)jdc/2)jod[owficerroan]or[sac]nvention for currently provided files.	
lehd_shp_[ge	o <b>shapæipl</b> es	ZIP files containing data for shapefiles
version\_[typ	e]nt <b>æt</b> adata	Machine-readable text files with metadata on geographic
		and temporal coverage
j2jod_[geogr	a <b>phyl<u>a</u>data</b> il.csv	Complex metadata (used only in J2JOD) - see below

#### 5.1 QWIPU from the LED Extraction Tool

Files downloaded through the LED Extraction Tool at http://ledextract.ces.census.gov/ follow the following naming convention:

```
[type]_[id].[EXT]
```

where [id] is the Request ID (a unique string of characters) generated every time Submit Request" is clicked. The ID references each query submission made to the database.

### 5.2 Metadata for QWI and J2J data files (version.txt)

Metadata accompanies the data files, identifying provenance, geographic and temporal coverage. These files follow the following naming convention:

```
version_[type].txt
```

where each name component is described in more detail below.

#### 5.3 Metadata for J2JOD files

Because the origin-destination (J2JOD) data link two regions, we provide an auxiliary file with the time range for which cells containing data for each geographic pairing may appear in a data release. The reference region will always be either the origin or the destination. These files follow the following naming convention:

```
j2jod_[geography]_avail.csv
```

where each name component is described in more detail below.

## 6 Directory Paths

Downloadable data files are organized on the download server (at the time of this writing: <a href="https://lehd.ces.census.gov/data/">https://lehd.ces.census.gov/data/</a>) in directories organized as follows:

```
SERVER/data/[PRODUCT]/[RELEASE]/[GEOHI][ /[TYPE] ]/{files}
```

where [PRODUCT], [RELEASE], [GEOHI], and [TYPE] are each described below. [TYPE] is optional.

# 7 Description of Naming Components

#### 7.1 Release

A release is defined by the calendar year quarter when data production occurs. It is thus generically constructed as

```
R[YEAR]Q[QUARTER]
```

where [YEAR] is the 4-digit year and [QUARTER] the single-digit calendar year quarter (1-4).

#### 7.2 Types and Products

```
( naming_type.csv )
```

type	product	Description	Explanation	url
j2j	j2j	Job-to-Job Flows	Counts of hires and separations, to	http://lehd.ces.census.gov/
		Counts (J2J)	and from employment and	data/#j2j
			non-employment, summed across all	
			establishments	
j2jod	j2j	Job-to-Job Flows	Origin and destination flows and	http://lehd.ces.census.gov/
		Origin-Destination	earnings, tabulated by the destination	data/#j2j
			establishment	
j2jr	j2j	Job-to-Job Flows	Hiring and separation rates, to and	http://lehd.ces.census.gov/
		Rates	from employment and	data/#j2j
			nonemployment, summed across all	
			establishments	
lodes	lodes	LEHD	LEHD Origin-Destination	http://lehd.ces.census.gov/
		Origin-Destination	Employment Statistics (LODES)	data/#lodes
		Employment	used by OnTheMap. Version 7 and	
		Statistics (LODES)	higher of LODES was enumerated	
			by 2010 census blocks. Version 6	
			and lower of LODES were	
			enumerated with 2000 census blocks.	
qwi	qwi	Quarterly Workforce	The Quarterly Workforce Indicators	http://lehd.ces.census.gov/
		Indicators Public Use	(QWI) are a set of economic	data/#qwi
		Counts (QWIPU)	indicators including employment, job	
			creation, earnings, and other	
			measures of employment flows. The	
			QWI are reported using detailed firm	
			characteristics (geography, industry,	
			age, size) and worker demographics	
			information (sex, age, education,	
			race, ethnicity).	
qwir	qwi	Quarterly Workforce	Rates for flow variables in the	tbd
		Indicators Public Use	Quarterly Workforce Indicators	
		Rates	(QWI)	
qwirv	qwi	Quarterly Workforce	Variability measures for rates in the	tbd
		Indicators Variability	Quarterly Workforce Indicators	
		Measures for Rates	(QWI)	
qwiv	qwi	Quarterly Workforce	Variability measures for Quarterly	tbd
		Indicators Variability	Workforce Indicators (QWI)	
		Measures		
lehd_shp	all	LEHD Shapefiles	Shapefiles are used to provide	lehd_shapefiles.html
			mapping functionality in QWI	
			Explorer and Job-to-Job Explorer	

## 7.3 geohi

( naming\_geohi.csv )

The geohi component in **filenames** is based on one of two possible code sets:

- the lower-case alphabetic FIPS or postal state code based on FIPS PUB 5-2 (see also label\_stusps.csv for upper-case variants).
- the numeric CBSA code corresponding to the metropolitan areas (see <a href="label\_geography\_metro.csv">label\_geography\_metro.csv</a>)
- It is expanded to encompass additional codes denoting national coverage, or a collection of states.

For **directories**, files at the CBSA level are collected under a single **metro** directory.

type	Description	
all	Collection of all available states	
us	National data (50 states + DC)	
metro	Indicates collection of CBSA-level files (directory	
	names only)	
[st]	Any legal 2-character lower-case state postal code	
[NNNNN]	Any valid CBSA-derived code listed in	
	label_geography_metro.csv	

## 7.4 demo

( naming\_demo.csv )

type	Description
d	No demographic detail
rh	Race by Ethnicity tabulations
sa	Sex by Age tabulations
se	Sex by Education tabulations
sarhe	Collection of sa-rh-se tabulations

# 7.5 fas

( naming\_fas.csv )

type	Description	
f	No firm size or age detail	
fa	Tabulations by firm age	
fs	Tabulations by firm size	

# 7.6 geocat

( naming\_geocat.csv )

type	Description
gb	Metropolitan (complete)
gc	Counties
gm	Metropolitan/Micropolitan (state parts)
gn	National (50 States + DC)
gs	States
gw	Workforce Investment Areas

# 7.7 indcat

( naming\_indcat.csv )

type	Description
n	all industries
ns	NAICS sectors
n3	NAICS subsectors
n4	NAICS industry groups

## 7.8 owncat

( naming\_owncat.csv )

type	Description	
of	Federal government (QWI Code A01)	
op	All Private (QWI Code A05)	
oslp	oslp State, local, and private ownership categories (QWI	
	Code A00)	

# 7.9 sa

( naming\_sa.csv )

type	Description
S	Seasonally adjusted
u	Not seasonally adjusted

# 7.10 ext

( naming\_ext.csv )

type	Description
csv	Comma-Separated file
pdf	PDF file (printable)
xls	Excel file (only select output)
xlsx	Excel file (not available for larger files)

# 8 Changes

For a description of how schema files are versioned, see main directory.

## 8.1 This version (revisions)

• 2018-06-25: Initial release

#### 8.2 Version 4.3.0 from 4.2.0

- Changed the format of the version.txt file. This does not affect data files, but it does affect the metadata, and thus requires an increase in the minor version.
- Changed the description of the download locations of the QWI files, as part of the "naming" schema.



#### **Important**

Some of the data products noted above do not exist yet.

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