LEHD Public Use D	ata Schema v4.0.1
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REVISION HISTORY

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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.

The public-use Quarterly Workforce Indicators (QWI) data from the Longitudinal Employer-Household Dynamics Program 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/ and at an (occassional) mirror site at http://download.vrdc.cornell.edu/-qwipu/.

This document describes the data schema for QWI 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. Changes relative to the original v4.0 version are listed at the end.

1 Basic Schema

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

1.1 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.

1.2 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.

1.2.1 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

1.3 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.

(variables_qwipu.csv)

Indicator Variable	Alternate name	Status Flag	Indicator Name
Emp	В	sEmp	Beginning-of-Quarter Employment: Counts
EmpEnd	Е	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	Н3	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

2 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.

2.1 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

2.2 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)	

2.3 ethnicity

(label_ethnicity.csv)

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

2.4 firmage

(label_firmage.csv)

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

firmage	label
4	6-10 Years
5	11+ Years

2.5 firmsize

(label_firmsize.csv)

firmsize	label	
0	All Firm Sizes	
1	0-19 Employees	
2	20-49 Employees	
3	50-249 Employees	
4	250-499 Employees	
5	500+ Employees	

2.6 ownercode

(label_ownercode.csv)

ownercode	label
A00	All (1-5)
A05	All Private (5)

2.7 periodicity

(label_periodicity.csv)

periodicity	label
A	Annual data
Q	Quarterly data

2.8 race

(label_race.csv)

race	label
A0	All Races
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

2.9 seasonadj

(label_seasonadj.csv)

	seasonadj	label
Г	S	Seasonally adjusted

seasonadj	label
U	Not seasonally adjusted

2.10 sex

(label_sex.csv)

sex	label
0	All Sexes
1	Male
2	Female

2.11 Industry

2.11.1 Industry levels

(label_ind_level.csv)

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

2.11.2 Industry

(label_industry.csv)

Only a small subset of available values shown. The 2012 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
• • •	

2.12 Geography

2.12.1 Geographic levels

(label_geo_level.csv)

geo_level	label
C	Counties
M	Metropolitan/Micropolitan
S	States
W	Workforce Investment Areas

Geography labels are provided in separate files, in directories 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.

2.12.2 State-level values

(label_fipsnum.csv)

geography	label
02	Alaska
01	Alabama
05	Arkansas
04	Arizona
06	California
08	Colorado
09	Connecticut
• • •	
47	Tennessee
48	Texas
49	Utah
51	Virginia
50	Vermont
53	Washington
55	Wisconsin
54	West Virginia

2.12.3 Detailed state and substate level values

For a full listing of all valid geography codes (except for WIA 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.
- The WIA code is constructed from the 2-digit state FIPS code and the 6-digit WIA identifier provided by LED State Partners.

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

State	Format file
AK	ak/label_geography.csv
AL	al/label_geography.csv
AR	ar/label_geography.csv
AZ	az/label_geography.csv
CA	ca/label_geography.csv
CO	co/label_geography.csv
CT	ct/label_geography.csv
DC	dc/label_geography.csv
DE	de/label_geography.csv
FL	fl/label_geography.csv
GA	ga/label_geography.csv
HI	hi/label_geography.csv
IA	ia/label_geography.csv
ID	id/label_geography.csv
IL	il/label_geography.csv
IN	in/label_geography.csv
KS	ks/label_geography.csv
KY	ky/label_geography.csv
LA	la/label_geography.csv
MD	md/label_geography.csv
ME	me/label_geography.csv
MI	mi/label_geography.csv
MN	mn/label_geography.csv
MO	mo/label_geography.csv
MS	ms/label_geography.csv
MT	mt/label_geography.csv
NC	nc/label_geography.csv
ND	nd/label_geography.csv
NE NE	ne/label_geography.csv
NH	nh/label_geography.csv
NJ	nj/label_geography.csv
NM	nm/label_geography.csv
NV	nv/label_geography.csv
NY	ny/label_geography.csv
ОН	oh/label_geography.csv
OK	ok/label_geography.csv
OR	or/label_geography.csv
PA	pa/label_geography.csv
RI	ri/label_geography.csv
SC	sc/label_geography.csv
SD	sd/label_geography.csv
TN	tn/label_geography.csv
TX	tx/label_geography.csv
UT	ut/label_geography.csv
VA	va/label_geography.csv
VA	vt/label_geography.csv
WA	wa/label_geography.csv
WI	wi/label_geography.csv
WV	wv/label_geography.csv
WY	wy/label_geography.csv wy/label_geography.csv
V 1	wy/fauci_geography.csv

3 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

flag	label
-2	no data available in this category for this quarter
-1	data not available to compute this estimate
0	zero employment estimated or zero estimated denominator in a ratio - zero
	released
1	OK
5	Value suppressed because it does not meet US Census Bureau publication
	standards.
6	Value calculated from other released measures
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

4 Changes

4.1 Version 4.0.1

• switched NAICS coding from 2007 to 2012

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