QWIPU Data Schema

Quarterly Workforce Indicators (QWI) are available in the Beta release of the LED Extraction Tool with the following data schema. Official QWI Public-Use (QWIPU) data using this schema will be available as Comma-Separated Value (CSV) files through the Cornell Virtual Research Data Center (VRDC) at http://vrdc.cornell.edu/qwipu/ and on DVDs created for State Partners with the release of 2013 Quarter 2 Production data.

Contents

Basic Schema for QWIPU[1]

Position	Field Name	Type	Length	Label
1	periodicity	Char	1	Periodicity of report
2	seasonadj	Char	1	Seasonal Adjustment Indicator
3	geo_level	Char	1	Group: Geographic level of aggregation
4	geography	Char	8	Group: Geography code
5	ind_level	Char	1	Group: Geographic level of aggregation
6	industry	Char	5	Group: Industry code
7	ownercode	Char	3	Group: Ownership group
8	sex	Char	1	Group: Gender
9	agegrp	Char	3	Group: Age group
10	race	Char	2	Group: race
11	ethnicity	Char	2	Group: ethnicity
12	education	Char	2	Group: education
13	firmage	Char	1	Group: Firm Age group
14	firmsize	Char	1	Group: Firm Size group
15	year	Num	4	Time: Year
16	quarter	Num	1	Time: Quarter
17	[indicator1]	Num	8	[Indicator1 Description]
18	[indicator2]	Num	8	[Indicator2 Description]
...				
46	[indicator30]	Num	8	[Indicator30 Description]
47	[indicator1 status]	Num	1	[Indicator1 Status]
48	[indicator2 status]	Num	1	[Indicator2 Status]
...				

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[1] Note that the exact order of the variables in the raw data files available from the Cornell VRDC may be slightly different than the order specified here.

| 76 | [indicator30 status] | Num | 1 | [Indicator30 Status] |

Note: A full list of QWIs are shown below in the Indicators section. While all indicators are included in the full QWIPU files, only the requested indicators will be included in data outputs from the LED Extraction tool.

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.

Periodicity (periodicity)

periodicity	Description
Q	Quarterly Data

Seasonal Adjustment Indicator (seasonadj)

seasonadj	Description
U	Not Seasonally Adjusted

Geography Level (geo_level)

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

Geography (geography)

Only a small subset of available values are shown. For a full listing of all valid geography codes, see http://www.census.gov/geo/maps-data/data/tiger.html.

geography	Description
48	Texas
50	Vermont
48001	Anderson, TX
50001	Addison, VT
4810180	Abilene,TX
5012740	Barre, VT
48000001	01 Panhandle WDA
50000001	01 Addison County Business Education WIB

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[2] 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[3] code provided by the Census Bureau's Geography Division. As such, 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. 2010 Census geography is used for all tabulations as of 2012 Quarter 4.

NAICS Industry Level (ind_level)

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

Industry (industry)

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	Description
00	All NAICS Sectors
000	All NAICS Subsectors
0000	All NAICS Industry Groups
11	Agriculture, Forestry, Fishing, and Hunting
31-33	Manufacturing
111	Crop Production
311	Food Manufacturing
1111	Oilseed and Grain Farming
3112	Grain and Oilseed Milling

Ownership (ownercode)

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

Worker Sex (sex)

sex	Description
0	All Sexes
1	Male
2	Female

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[2] Federal Information Processing Standard. See http://quickfacts.census.gov/qfd/meta/long_fips.htm for more details.

[3] Core Based Statistical Area. See http://www.census.gov/population/metro/ for more details.

Worker Age (agegrp)

agegrp	Description
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

Worker Race (race)

race	Description
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

Worker Ethnicity (ethnicity)

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

Worker Educational Attainment (education)

education	Description
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)

Firm Age (firmage)

firmage	Description
0	All Firm Ages
1	0-1 Years
2	2-3 Years
3	4-5 Years
4	6-10 Years
5	11+ Years

Firm Size (firmsize)

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

Year (year)

Only a small subset of available values shown. The available range of years depends upon the given state.

year	Description
1992	Year

Quarter (quarter)

Not all quarters of data are available for all years. The available range of quarters depends upon the given state.

quarter	Description
1	1st Quarter of the Year (Jan.-Mar.)
2	2nd Quarter of the Year (Apr.-Jun.)
3	3rd Quarter of the Year (Jul.-Sep.)
4	4th Quarter of the Year (Oct.-Dec.)

Indicators

There are currently 30 QWI and each has an associated status flag. All current indicators and status flag variables are listed in the table below. For more information about the QWIs, see http://lehd.ces.census.gov/doc/QWI_101.pdf. For variable ordering purposes in file layouts, the following order will be maintained:

Indicator Variable	Status Flag	Indicator Name
Emp	sEmp	Beginning of Quarter Employment: Counts
EmpEnd	sEmpEnd	End of Quarter Employment: Counts
EmpS	sEmpS	Full-Quarter Employment (Stable): Counts
EmpTotal	sEmpTotal	Employment - Reference Quarter: Counts
HirA	sHirA	Hires All: Counts (Accessions)
HirN	sHirN	Hires New: Counts
HirR	sHirR	Hires Recalls: Counts
Sep	sSep	Separations: Counts
HirAS	sHirAS	Hires All (Stable): Counts (Flow into Full-Quarter Employment)
HirNS	sHirNS	Hires New (Stable): Counts (New Hires to Full-Quarter Status)
SepS	sSepS	Separations (Stable): Counts (Flow out of Full-Quarter Employment)

TurnOvrS	sTurnOvrS	Turnover (Stable) (Job Churning)
FrmJbGn	sFrmJbGn	Firm Job Gains: Counts (Job Creation)
FrmJobLs	sFrmJobLs	Firm Job Loss: Counts (Job Destruction)
FrmJbC	sFrmJbC	Firm Job Change: Net Change
FrmJbGnS	sFrmJbGnS	Firm Job Gains (Stable): Counts
FrmJbLsS	sFrmJbLsS	Firm Job Loss (Stable): Counts
FrmJbCS	sFrmJbCS	Job Change (Stable): Net Change
EarnS	sEarnS	Full Quarter Employment (Stable): Average Monthly Earnings
EarnEnd	sEarnEnd	End of Quarter Employment: Average Monthly Earnings
EarnHirAS	sEarnHirAS	Hires All (Stable): Average Monthly Earnings
EarnHireNS	sEarnHireNS	Hires New (Stable): Average Monthly Earnings
EarnSepS	sEarnSepS	Separations (Stable): Average Monthly Earnings
EarnHirAC	sEarnHirAC	Hires All: Average Change in Monthly Earnings
EarnSepC	sEarnSepC	Separations: Average Change in Monthly Earnings
Payroll	sPayroll	Total Quarterly Payroll: Sum
NEmpHirA	sNEmpHirA	Hires All: Average Quarters of Non-Employment
NEmpHirN	sNEmpHirN	Hires New: Average Quarters of Non-Employment
NEmpHirR	sNEmpHirR	Hires Recalls: Average Quarters of Non-Employment
NEmpSep	sNEmpSep	Separations: Average Quarters of Non-Employment

Status Flags

Each status flag in the table above can have one of six valid values. The values and their interpretation are listed in the table below.

Status Flag	Description
-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
9	Data significantly distorted, distorted value released

CSV Naming Conventions: QWIPU from LED Extraction Tool

CSV files downloaded from the LED Extraction tool are described by the following filename structure:

[TYPE]_[ID].csv

Description of Filename Components

Series type [TYPE]

- qwi = Quarterly Workforce Indicators

Request ID [ID]

- [unique string of characters] = a Request ID is generated every time "Submit Data Request" is clicked. The ID references each query submission made to the database.

CSV Naming Conventions: Full QWIPU

QWIPU CSV files downloaded from the VRDC are described by the following filename structure:

[TYPE]_[ST]_[CHAR]_[FAS]_[GEO]_[IND]_[OWN]_[SA].csv

Description of Filename Components

Series type [TYPE]

- qwi = Quarterly Workforce Indicators

State [ST]

- any 2-digit state postal code identifier

Demographic characteristics [CHAR]

- sa = Sex by Age tabulations
- se = Sex by Education tabulations
- rh = Race by Ethnicity tabulations

Firm Age/Size [FAS]

- f = All firm sizes and ages
- fa = Tabulations by Firm age
- fs = Tabulations by Firm size

Geography [GEO]

- gs = State
- gc = Counties
- gm = Core-Based Statistical Areas (Metropolitan/Micropolitan Statistical Areas)
- gw = Workforce Investment Areas (a geographic area defined under the Workforce Investment Act)

Industry detail [IND]

- ns = NAICS Sectors
- n3 = NAICS Subsectors (3-digit)
- n4 = NAICS Industry Groups (4-digit)

Ownership [OWN]

- oslp = State, local, and private ownership categories (BLS codes: 2,3,5; QWI code A00)
- op = Only privately owned firms (BLS codes: 5, QWI code A05)

Seasonal Adjustment [SA]

- u = Not seasonally adjusted