

# LEHD Schema Changelog (V4.9.0)

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Feedback is welcome. Please write us at [ces.qwi.feedback@census.gov](mailto:ces.qwi.feedback@census.gov).

## V4.9.0

- Update geographic definitions to TIGER 2021
- Refactor schema documentation build process

## V4.8.2

### Changes from 4.8.1

- Added IPEDS status flag for partially missing counts
- Updated PSEO earnings to 2019 dollars

## V4.8.1

### Changes from 4.8.0

- Update of institution list (label\_institution.csv)

## V4.8.0

### Changes from 4.7.0

- Underlying geovintage updated to reflect 2020 TIGER/Line geography (except for CBSAs - "gb" and "gm" features)
  - Updated shapefiles based on TIGER/Line 2020 (except for CBSAs - "gb" and "gm" shapefile types)
- ==

### Changes from 4.7.0

- Update EmpSpv due to the restructuring of the QWI weights
- Added PSEO metadata files for data partners and coverage
- Underlying geovintage updated to reflect 2020 TIGER/Line geography - except for CBSAs.
- Tabulations for "B" and "M" geo\_levels continue to use 2019 TIGER/Line geographies.

## V4.7.0

### Changes from 4.6.0

- Merge PSEO schema files into official release version

- Minor formatting changes

## **Changes from 4.5.0-draft**

- Additional status flags on PSEO Earnings
- Additional measures on PSEO Flows to report unobserved/marginally employed
- Earnings reported at 2-digit CIPCODE level
- Institution code changed to 8-digits
- Updated to 2020 CIPCODE

## **V4.6.0**

### **Version 4.6.0 from 4.4.0**

- Underlying geovintage updated to reflect 2019 census geography
- Updated shapefiles based on TIGER 2019
- Added documentation of new J2J Earnings indicators (coming soon in next release of J2J data)

## **V4.5.0-draft**

### **Version 4.5.0 from 4.4.0**

- Added PSEO draft schema csv files
- Added PSEO sourcing and documentation

## **V4.4.0**

### **This version (revisions)**

- Minor layout changes for better readability

### **Version 4.4.0 from 4.3.1**

- Underlying geovintage updated to reflect 2018 census geography
- Updated shapefiles based on TIGER 2018
- PR geography labels added
- Added state part to non-metro/non-micro areas in state label files
- Removed nonexistent VT geography from labels

## V4.3.1

### This version (revisions)

- Switch to different rendering engine, only stylistic changes

### Version 4.3.1 from 4.3.0

- Due to a change of the geographic boundaries for a WIB in Iowa, the shape files need to be updated.
- Adjust the "supersedes" definition to correctly reference the prior version.

### 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.

## V4.3.0

### 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.

## V4.2-rc1

### Version 4.2.0 from 4.1.3

- Updated industry classification from NAICS 2012 to NAICS 2017
- Added J2J Explorer-specific description of metadata for convenience ([lehd\\_j2jexplorer\\_schema.html](#))
- Added a column ind\_level to label\_industry.csv similar to the geo\_level
- Added additional columns to the variable metadata schema for greater clarity
  - Description,
  - Concept,
  - Base

- Added a (draft) taxonomy of concepts used in the LEHD data world ([label\\_concept\\_draft.csv](#))
- Fixed the labeling of ownership code A00 to correctly reflect scope
- Added files describing the number of quarters of data availability required relative to start and end quarters ([lags\\_qwi.csv](#) and [lags\\_j2j.csv](#)), and its metadata ([variables\\_lags.csv](#))

## V4.2b-draft

### This version (revisions)

- Incorporates forgotten updates to j2japp descriptions. This does not affect the structure or contents of any released data files, but it affects the unreleased J2J app updates downstream.
- clarifying the version.txt description - removed the mention of fips replacing by geonum
- Moved stusps to the geography section, where it rightfully belongs.
- Clarified language and usage of metropolitan area codes in [label\\_geography\\_metro.csv](#), removed unused [label\\_geography\\_cbsa.csv](#)
- Expanded definition of [geohi] to include CBSA codes for metropolitan areas
- Description on J2JOD earnings measures reversed, fixed. Only affects the J2J app metadata.
- Description on J2JOD earnings measures reversed, should have also fixed on J2JOD description.

### Version 4.2b-draft from V4.2a-draft

- Description on J2JOD earnings measures reversed
- stusps file is not in Geography section of [lehd\\_schema.html](#)
- [variables\\_j2japp.csv](#) wasn't updated in 4.2b-draft
- Review "concept" field for MJobStart/MJobEnd
- Adjust description of XLS files for J2J
- J2J will use status flag 5
- Add something about which series are seasonally adjustment to the schema

### Version 4.2a-draft from 4.1.1

- J2J measures contain fields not in CSV
- J2JOD - renaming stable count variables
- Update [agg\\_level](#) labels
- Discussing presence of Application Name or alternate schema file or other.

# V4.2a-draft

## Version 4.2a-draft from 4.1.1

- J2J measures contain fields not in CSV
- J2JOD - renaming stable count variables
- Update agg\_level labels
- Discussing presence of Application Name or alternate schema file or other.

## V4.2.0

### This version (revisions)

- Fix EOL issues
- Additional EOL issues

## Version 4.2.0 from 4.1.3

- Updated industry classification from NAICS 2012 to NAICS 2017
- Added a column ind\_level to label\_industry.csv similar to the geo\_level
- Added additional columns to the variable metadata schema for greater clarity
  - Description,
  - Concept,
  - Base
- Added a (draft) taxonomy of concepts used in the LEHD data world ([label\\_concept\\_draft.csv](#))
- Fixed the labeling of ownership code A00 to correctly reflect scope
- Added files describing the number of quarters of data availability required relative to start and end quarters ([lags\\_qwi.csv](#) and [lags\\_j2j.csv](#)), and its metadata ([variables\\_lags.csv](#))

## V4.1-rc3

### Version 4.1-rc1 from 4.0.5

- Implemented select changes from V4.1d-draft: Key changes are
- Changed structure of state-level geography labels (flat directory structure) e5dbe97
- Describes National QWI files and J2J files (both of which are still in beta), added J2J, National QWI spec
- added additional geo\_level for CBSA (complete), additional description, sources in

label\_geo\_level.csv 1eb399f,27a2674

- adjusted AL, AR, GA, IA, KY, LA, MN, MS, NM, PA, TN, TX metropolitan areas for 2016 geo vintage

## In more detail

- added geohi category of ALL, US, add naming\_geohi.csv 89617e3
- added naming convention for additional filesb
- added agg\_level variable 89617e3, 2149623
- Changes to name of variable schema files (qwipu → qwi), addition of variability and rate variable schema files. 89617e3
- Addition of a column identifying the type of variable on QWI 89617e3
- Renamed file from QWIPU\_Data\_Schema.pdf to lehd\_public\_use\_schema.pdf 89617e3
- Addition of variable schema description for J2J 1a57250
- Added a extension component [ext] to the file naming convention to reflect availability of Excel files (and PDF files) d9f8387 f7cc524
- Updated documentation-generating scripts to the latest. Documents are now identified by date, not revision 8136f0c
- Added a concatenation of geography files as label\_geography.csv. 8136f0c, 39ecfc9
- Added a column geo\_level to all label\_geography\_\* files a32bb4c
- Changed fipsnum to force readin of FIPS as character, include geo\_level, US. a32bb4c
- Added additional legal values for firmage and firmsize, as used by J2J a32bb4c
- Added Federal government to files (for National QWI) 942dd0a, 1654288
- Clarified description of filenaming components 8888529, 8d580f6
- Sundry small additional changes, building out the schema 28d7c6f
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released. 3a0975e

## Version 4.1-rc2 from 4.1-rc1

- Added description,definition of SHP files
- Modified Indicator Names for J2J variable metadata.

## Version 4.1-rc3 from 4.1-rc2

- adjusted AL, AR, GA, IA, KY, LA, MN, MS, NM, PA, TN, TX metropolitan areas for 2016 geo vintage

## V4.1-rc2

## Version 4.1-rc1 from 4.0.5

- Implemented select changes from V4.1d-draft: Key changes are
- Changed structure of state-level geography labels (flat directory structure) e5dbe97
- Describes National QWI files and J2J files (both of which are still in beta), added J2J, National QWI spec
- added additional geo\_level for CBSA (complete), additional description, sources in label\_geo\_level.csv 1eb399f,27a2674

### In more detail

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- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released. 3a0975e

## Version 4.1-rc2 from 4.1-rc1

- Added description,definition of SHP files
- Modified Indicator Names for J2J variable metadata.



# V4.1-rc1

## Version 4.1-rc1 from 4.0.5

- Implemented select changes from V4.1d-draft: Key changes are
- Changed structure of state-level geography labels (flat directory structure) e5dbe97
- Describes National QWI files and J2J files (both of which are still in beta), added J2J, National QWI spec
- added additional geo\_level for CBSA (complete), additional description, sources in label\_geo\_level.csv 1eb399f,27a2674

### In more detail

- added geohi category of ALL, US, add naming\_geohi.csv 89617e3
- added naming convention for additional files
- added agg\_level variable 89617e3, 2149623
- Changes to name of variable schema files (qwipu → qwi), addition of variability and rate variable schema files. 89617e3
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- Sundry small additional changes, building out the schema 28d7c6f
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released. 3a0975e

## V4.1-draft

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

- corrected flag values
- documents are now identified by date, not revision
- Correction of the TIGER vintage that is used for geographic references

## **Version 4.1-draft from 4.0**

- added J2J, National QWI spec

## **V4.1d-draft**

### **This version from previous releases of V4.1 draft schema documents**

- corrected flag values
- documents are now identified by date, not revision
- Correction of the TIGER vintage that is used for geographic references
- Added URL for J2J
- Correction of typo in type naming convention, rename of naming\_fipsalpha.csv to naming\_geohi.csv to be consistent.
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released.
- Changes to alternate name of SepSnx and EmpSpv, tentative rate names
- Changes to name of variable schema files (qwipu → qwi), addition of variability variable schema files.
- Fixed small typos in QWI variable short names
- Updated agg\_level description, replaced agg\_level.csv file
- Fixed minor rendering bug for QWI rate variability names.
- No change to actual metadata.
- Fixed a minor coding error in label\_fipsnum.csv, added a concatenation of geography files as label\_geography\_all.csv.
- Minor text change for agg\_level, modified agg\_level file.
- Removed the last 4 rows of variables\_j2jod.csv, since they are not on the current beta J2JOD files.
- Added a extension component [ext] to the file naming convention to reflect availability of Excel files (and PDF files)
- Removed extraneous empty lines

- Fixed typo in variables\_qwi.csv (FrmJbLsS, EarnHirNS and status variables)
- Incorporated all state-level geography from 4.0.5
- Added additional geo\_level for CBSA (complete)
- Added additional agg\_level values
- Clarified labels of j2jod identifiers
- Renamed label\_geography\_all as label\_geography
- Added a column geo\_level to all label\_geography\_\* files
- Corrected erroneous Oregon geography labels.

## **Version 4.1d-draft from 4.0.1**

- added J2J, National QWI spec
- added geohi category of ALL, US
- added definitions of variability measures
- added definitions of rates on separate file
- added naming convention for additional files
- added agg\_level variable
- added additional geo\_level for CBSA (complete)
- added SHP files and description thereof

## **V4.1c-draft**

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

- corrected flag values
- documents are now identified by date, not revision
- Correction of the TIGER vintage that is used for geographic references
- Added URL for J2J
- Correction of typo in type naming convention, rename of naming\_fipsalpha.csv to naming\_geohi.csv to be consistent.
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released.
- Changes to alternate name of SepSnx and EmpSpv, tentative rate names
- Changes to name of variable schema files (qwipu → qwi), addition of variability variable schema files.
- Fixed small typos in QWI variable short names
- Updated agg\_level description, replaced agg\_level.csv file

- Fixed minor rendering bug for QWI rate variability names. No change to actual metadata.
- Fixed a minor coding error in label\_fipsnum.csv, added a concatenation of geography files as label\_geography\_all.csv.
- Minor text change for agg\_level, modified agg\_level file.
- Removed the last 4 rows of variables\_j2jod.csv, since they are not on the current beta J2JOD files.
- Added a extension component [ext] to the file naming convention to reflect availability of Excel files (and PDF files)
- Removed extraneous empty lines
- Fixed typo in variables\_qwi.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed typo in variables\_qwi.csv (HirAS, HirNS, and status variables)
- Fixed typo in variables\_qwi\*v.csv (HirAS, HirNS)

## **Version 4.1c-draft from 4.0**

- added J2J, National QWI spec
- added geohi category of ALL, US
- added definitions of variability measures
- added definitions of rates on separate file
- added naming convention for additional files
- added agg\_level variable

## **V4.1b-draft**

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

- corrected flag values
- documents are now identified by date, not revision
- Correction of the TIGER vintage that is used for geographic references
- Added URL for J2J
- Correction of typo in type naming convention, rename of naming\_fipsalpha.csv to naming\_geohi.csv to be consistent.
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released.
- Changes to alternate name of SepSnx and EmpSpv, tentative rate names
- Changes to name of variable schema files (qwipu → qwi), addition of variability variable schema files.
- Fixed small typos in QWI variable short names

- Updated agg\_level description, replaced agg\_level.csv file
- Fixed minor rendering bug for QWI rate variability names. No change to actual metadata.
- Fixed a minor coding error in label\_fipsnum.csv

## Version 4.1b-draft from 4.0

- added J2J, National QWI spec
- added geohi category of ALL, US
- added definitions of variability measures
- added definitions of rates on separate file
- added naming convention for additional files
- added agg\_level variable
- added a concatenation of geography files as label\_geography\_all.csv.
- added label\_geography\_us.csv for completeness

## V4.1.3

### Version 4.1.3 from 4.1.2

- Updated LEHD shape files for Texas WIB definitions
- Update the source links of metro definitions from <http://www.census.gov/population/metro/> (broken) to <https://www.census.gov/programs-surveys/metro-micro.html>
- Corrected naming of three of the status flags that have "Rate" at the end. That should be just "R".

### Version 4.1.2 from 4.1.1

- Updated LEHD shape files, Louisiana and Alabama WIB definitions

### Version 4.1.1 from 4.1.0

- Modified naming\_geo\_cat.csv, gb value to read "Metropolitan (complete)", gm to "Metropolitan/Micropolitan (state parts)"
- Updated reference in shapefile description to Job-to-Job Explorer to point to the recently released Beta webap, updated title to refer to the same name as the naming\_geo\_cat.csv uses
- Updated TIGER references to 2016 in shapefile description
- Modified label\_geo\_level.csv, B value to read "Metropolitan (complete)"
- Added referenced in the same file to where to find the CBSA code underlying the state-part definitions
- Added a new file label\_geography\_metro.csv

- Changed references where appropriate from label\_geography\_cbsa to label\_geography\_metro
- Added additional aggregation levels, changed some labels
- Removed two variables from variables\_j2jod.csv that were not actually on the CSV file
- Updated 2016 geography in shapefiles
- Corrected naming of files inside shapefile ZIP files

## V4.1.2

### This version (revisions)

- Corrected naming of three of the status flags that have "Rate" at the end. That should be just "R".

### Version 4.1.2 from 4.1.1

- Updated LEHD shape files, Louisiana and Alabama WIB definitions

### Version 4.1.1 from 4.1.0

- Modified naming\_geo\_cat.csv, gb value to read "Metropolitan (complete)", gm to "Metropolitan/Micropolitan (state parts)"
- Updated reference in shapefile description to Job-to-Job Explorer to point to the recently released Beta webap, updated title to refer to the same name as the naming\_geo\_cat.csv uses
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- Added referenced in the same file to where to find the CBSA code underlying the state-part definitions
- Added a new file label\_geography\_metro.csv
- Changed references where appropriate from label\_geography\_cbsa to label\_geography\_metro
- Added additional aggregation levels, changed some labels
- Removed two variables from variables\_j2jod.csv that were not actually on the CSV file
- Updated 2016 geography in shapefiles
- Corrected naming of files inside shapefile ZIP files

## V4.1.1

### This version (revisions)

- Corrected naming of three of the status flags that have "Rate" at the end. That should be just "R".

## Version 4.1.1 from 4.1.0

- Modified naming\_geo\_cat.csv, gb value to read "Metropolitan (complete)", gm to "Metropolitan/Micropolitan (state parts)"
- Updated reference in shapefile description to Job-to-Job Explorer to point to the recently released Beta webap, updated title to refer to the same name as the naming\_geo\_cat.csv uses
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- Added a new file label\_geography\_metro.csv
- Changed references where appropriate from label\_geography\_cbsa to label\_geography\_metro
- Added additional aggregation levels, changed some labels
- Removed two variables from variables\_j2jod.csv that were not actually on the CSV file
- Updated 2016 geography in shapefiles
- Corrected naming of files inside shapefile ZIP files

## V4.1.0

### This version (revisions)

- Fixed a rendering issue with an empty column.
- Modified the label for firm age and firm size to contain mention of "Not Available For Public-Sector Firms"
- Changed description of agg\_level
- Removed two variables from variables\_j2jod.csv that were not actually on the CSV file
- Corrected bad reference to release RXXXX, which should have been R2016Q4
- Corrected naming of files inside shapefile ZIP files
- Corrected naming of three of the status flags that have "Rate" at the end. That should be just "R".

## Version 4.1 from 4.0.5

- Implemented select changes from V4.1d-draft: Key changes are
- Changed structure of state-level geography labels (flat directory structure)
- Describes National QWI files and J2J files (both of which are still in beta), added J2J, National QWI spec
- added additional geo\_level for CBSA (complete), additional description, sources in label\_geo\_level.csv

- Added description, definition of SHP files
- Modified Indicator Names for J2J variable metadata.
- adjusted AL, AR, GA, IA, KY, LA, MN, MS, NM, PA, TN, TX metropolitan areas for 2016 geo vintage

## **In more detail**

- added geohi category of ALL, US, add naming\_geohi.csv
- added naming convention for additional files
- added agg\_level variable
- Changes to name of variable schema files (qwipu → qwi), addition of variability and rate variable schema files.
- Addition of a column identifying the type of variable on QWI
- Renamed file from QWIPU\_Data\_Schema.pdf to lehd\_public\_use\_schema.pdf
- Addition of variable schema description for J2J
- Added a extension component [ext] to the file naming convention to reflect availability of Excel files (and PDF files)
- Updated documentation-generating scripts to the latest. Documents are now identified by date, not revision
- Added a concatenation of geography files as label\_geography.csv.
- Added a column geo\_level to all label\_geography\_\* files
- Changed fipsnum to force reading of FIPS as character, include geo\_level, US.
- Added additional legal values for firmage and firmsize, as used by J2J
- Added Federal government to files (for National QWI)
- Clarified description of file naming components
- Sundry small additional changes, building out the schema
- Changing of naming convention for to-be-released files based on federal government from fg → of. At this time, no such files have been released.

## **V4.0.5**

### **This version (revisions)**

- Fixed typo in variables\_qwipu.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed typo in variables\_qwipu.csv (HirAS, HirNS, and status variables)

### **Version 4.0.1 from 4.0**

- removed obsolete flag values
- updated IL, NE geography definitions



## Version 4.0.2 from 4.0.1

- switched NAICS coding from 2007 to 2012

## Version 4.0.3 from 4.0.2

- switched Geovintage to 2014, updated AK and SD files, added MA.

## Version 4.0.4 from 4.0.3

- updated OR.
- Added consolidated geography label file label\_geography\_all.csv
- Updated the identification of the correct geo vintage
- Added a link to NAICS 2012 tables
- Removing the 99 row in industry values - only used for internal error checking

## Version 4.0.5 from 4.0.4

- updated MO (new WIB code).
- Added us/label\_geography.csv to have an entry for the National QWI
- Added better cross-links between CSV naming scheme, and datafile schema
- Corrected label\_geo\_level.csv to include the national level value.
- Clarified description of geography codes

## V4.0.4

### This version (revisions)

- Added better cross-links between CSV naming scheme, and datafile schema
- Corrected label\_geo\_level.csv to include the national level value.
- Fixed typo in variables\_qwipu.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed typo in variables\_qwipu.csv (HirAS, HirNS, and status variables)

## Version 4.0.1 from 4.0

- removed obsolete flag values
- updated IL, NE geography definitions

## **Version 4.0.2 from 4.0.1**

- switched NAICS coding from 2007 to 2012

## **Version 4.0.3 from 4.0.2**

- switched Geovintage to 2014, updated AK and SD files, added MA.

## **Version 4.0.4 from 4.0.3**

- updated OR.
- Added consolidated geography label file label\_geography\_all.csv
- Updated the identification of the correct geo vintage
- Added a link to NAICS 2012 tables
- Removing the 99 row in industry values - only used for internal error checking

## **V4.0.3**

### **This version (revisions)**

- Added consolidated geography label file label\_geography\_all.csv
- Updated the identification of the correct geo vintage
- Fixed typo in variables\_qwipu.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed error in CBSA names (failure to actually update to 2014 Geovintage)
- Corrected WIB naming change in Florida and Ohio
- Fixed typo in variables\_qwipu.csv (HirAS, HirNS, and status variables)

## **Version 4.0.1 from 4.0**

- removed obsolete flag values
- updated IL, NE geography definitions

## **Version 4.0.2 from 4.0.1**

- switched NAICS coding from 2007 to 2012

## **Version 4.0.3 from 4.0.2**

- switched Geovintage to 2014, updated AK and SD files, added MA.

## V4.0.2

### This version (revisions)

- Initial version
- Corrected release that the switch to NAICS 2012 was made
- Added consolidated geography label file label\_geography\_all.csv
- Fixed typo in variables\_qwipu.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed typo in variables\_qwipu.csv (HirAS, HirNS, and status variables)

### Version 4.0.1 from 4.0

- removed obsolete flag values
- updated IL, NE geography definitions

### Version 4.0.2 from 4.0.1

- switched NAICS coding from 2007 to 2012

## V4.0.1

### This version (revisions)

- Fixed typo in variables\_qwipu.csv (FrmJbLsS, EarnHirNS and status variables)
- Fixed typo in variables\_qwipu.csv (HirAS, HirNS, and status variables)

### Version 4.0.1 from 4.0

- removed obsolete flag values
- updated IL, NE geography definitions

## V4.0

- Initial release

## v3.5

- Historical release