LEHD Public Use Data Schema (V4.9.0)

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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 through the LEHD website's Data page at https://lehd.ces.census.gov/data/ and through the LED Extraction Tool at https://ledextract.ces.census.gov/.

This document describes the data schema for LEHD files. LEHD-provided SHP files are separately described in lehd_shapefiles.pdf. For each variable, a set of allowable values is defined. Definitions are provided as CSV files, with header variable definitions. Changes are listed in lehd_changelog.pdf.

2. File naming

The naming conventions of the data files is documented in lehd_csv_naming.pdf.

3. Extends

This version reimplements some features from V4.0. Many files compliant with LEHD or QWI Schema v4.0 will also be compliant with this schema, but compatibility is not guaranteed.

4. Basic Schema

Each data file is structured as a CSV file. The first columns contain [identifiers], subsequent columns contain [indicators], followed by status flags. In some cases, visually formatted Excel (XLSX) files are also available, containing the same information together with header lines on each sheet.

4.1. Generic Structure

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

Column name
[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.

4.2. 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.

4.2.1. 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	NQW I	J2J	J2JR	J2JOD	PSEO E	PSEO F	LODE S
lehd_identifiers_qwi	1	1						
lehd_identifiers_j2j			1	1				
lehd_identifiers_j2jo d					1			
lehd_identifiers_pse o						1	1	

4.2.2. Identifiers for QWI

(lehd_identifiers_qwi.csv)

Variable	Туре	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

4.2.3. Identifiers for J2J

(lehd_identifiers_j2j.csv)

Variable	Туре	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

4.2.4. 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 of destination job
geography	Char(8)	Group: Geography code of destination job
ind_level	Char(1)	Group: Industry level of aggregation of destination job
industry	Char(5)	Group: Industry code of destination job
ownercode	Char(3)	Group: Ownership group code of destination job
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

4.2.5. Identifiers for PSEO

(lehd_identifiers_pseo.csv)

Variable	Туре	label
agg_level_pseo	Numeric	Aggregation level
inst_level	Char(1)	Tabulation level of the institution
institution	Char(8)	Place of the institution
degree_level	Char(2)	Degree level code
cip_level	Char(1)	Degree field level of aggregation
cipcode	Char(7)	Degree field
grad_cohort	Char(4)	First year of graduation cohort (YYYY) - All Cohorts 0000
grad_cohort_years	Numeric	Number of years in graduation cohort
geo_level	Char(1)	Group: Geographic level of employment
geography	Char(8)	Group: Geography code of employment
ind_level	Char(1)	Group: Industry level of employment
industry	Char(5)	Group: Industry code of employment

4.3. Indicators

The following tables and associated mapping files list the indicators available on each file. The descriptor files themselves are structured as follows:

- 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 non-abbreviated version of the "Indicator Variable".
- The "Description" provides more verbose description of the variable.
- "Units" identify the type of variable according to a very simplified taxonomy (not formalized yet): counts, rates, monetary amounts.
- "Concept" classifies the variables into higher-level concepts. The taxonomy for these concepts has not been finalized yet, see label_concept_draft.csv for a draft version.
- The "Base" indicates the denominator used to compute the statistic, and may be '1'.

4.3.1. National QWI and State-Level QWI

(variables_qwi.csv)

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
Emp	В	sEmp	Beginning-of- Quarter Employment	Estimate of the total number of jobs on the first day of the reference quarter	Count	Emplo yment	1
EmpEn d	Е	sEmpE nd	End-of-Quarter Employment	Estimate of the number of jobs on the last day of the quarter	Count	Emplo yment	1
EmpS	F	sEmpS	Full-Quarter Employment (Stable)	Estimate of stable jobs - the number of jobs that are held on both the first and last day of the quarter with the same employer	Count	Emplo yment	1

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
EmpTo tal	M	sEmpT otal	Employment - Reference Quarter	Estimated count of people employed in a firm at any time during the quarter	Count	Emplo yment	1
EmpSp v	Fpv	sEmpS pv	Full-Quarter Employment in the Previous Quarter	Estimate of stable jobs in the quarter before the reference quarter	Count	Emplo yment	1
HirA	A	sHirA	Hires (All Accessions)	Estimated number of workers who started a new job in the specified quarter	Count	Hire	1
HirN	Н	sHirN	New Hires	Estimated number of workers who started a new job excluding recall hires	Count	Hire	1
HirR	R	sHirR	Recall Hires	Estimated number of workers who returned to the same employer where they had worked within the previous year	Count	Hire	1
Sep	S	sSep	Separations (All)	Estimated number of workers whose job with a given employer ended in the specified quarter	Count	Separa tion	1
HirAEn d	CA	sHirAE nd	End-of-Quarter Hires	Estimated number of workers who started a new job in the specified quarter, which continued into next quarter	Count	Hire	1

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
SepBeg	CS	sSepBe g	Beginning-of- Quarter Separations	Estimated number of workers whose job in the previous quarter continued and ended in the given quarter	Count	Separa tion	1
HirAEn dRepl	EI	sHirAE ndRepl	Replacement Hires	Hires into continuous quarter employment in excess of job creation	Count	Hire	1
HirAEn dR	CAR	sHirAE ndR	End-of-Quarter Hiring Rate	Hires as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
SepBeg R	CSR	sSepBe gR	Beginning-of- Quarter Separation Rate	Separations as a percent of average employment	Rate	Separa tion	(Emp + EmpEn d)/2
HirAEn dReplR	EIR	sHirAE ndRepl R	Replacement Hiring Rate	Replacement hires as a percent of the average of beginning- and end- of-quarter employment	Rate	Hire	(Emp + EmpEn d)/2
HirAS	FA	sHirAS	Hires (All Hires into Full-Quarter Employment)	Estimated number of workers that started a job that lasted at least one full quarter with a given employer	Count	Hire	1
HirNS	FH	sHirNS	New Hires (New Hires into Full- Quarter Employment)	Estimated number of workers who started a job that they had not held within the past year and the job turned into a job that lasted at least a full quarter with a given employer	Count	Hire	1

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
SepS	FS	sSepS	Separations (Flows out of Full-Quarter Employment)	Estimated number of workers who had a job for at least a full quarter and then the job ended	Count	Separa tion	1
SepSnx	FSnx	sSepSn x	Separations in the Next Quarter (Flows out of Full-Quarter Employment)	Estimated number of workers in the next quarter who had a job for at least a full quarter and then the job ended	Count	Separa tion	1
TurnO vrS	FT	sTurnO vrS	Turnover (Stable)	The rate at which stable jobs begin and end	Rate	Turnov er	2*Emp S
FrmJb Gn	JC	sFrmJb Gn	Firm Job Gains (Job Creation)	Estimated number of jobs gained at firms throughout the quarter	Count	Job Flows	1
FrmJbL s	JD	sFrmJb Ls	Firm Job Loss (Job Destruction)	Estimated number of jobs lost at firms throughout the quarter	Count	Job Flows	1
FrmJbC	JF	sFrmJb C	Firm Job Change (Net Change)	Difference between firm job gain and firm job loss	Count	Job Flows	1
FrmJb GnS	FJC	sFrmJb GnS	Firm Job Gains (Stable)	Estimated number of full-quarter jobs gained at firms	Count	Job Flows	1
FrmJbL sS	FJD	sFrmJb LsS	Firm Job Loss (Stable)	Estimated number of full-quarter jobs lost at firms	Count	Job Flows	1
FrmJbC S	FJF	sFrmJb CS	Firm Job Change (Stable; Net Change)	Net growth in jobs that last a full quarter	Count	Job Flows	1
EarnS	ZW3	sEarnS	Average Monthly Earnings (Full- Quarter Employment)	Average monthly earnings of employees with stable jobs	Dollars	Earnin gs	EmpS

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
EarnBe g	ZW2B	sEarnB eg	Average Monthly Earnings (Beginning-of- Quarter Employment)	Average monthly earnings of employees who worked on the first day of the reference quarter	Dollars	Earnin gs	Emp
EarnHi rAS	ZWFA	sEarnH irAS	Average Monthly Earnings (All Hires into Full-Quarter Employment)	Average monthly earnings for workers who started a job that turned into a job lasting a full quarter	Dollars	Earnin gs	HirAS
EarnHi rNS	ZWFH	sEarnH irNS	Average Monthly Earnings (New Hires into Full- Quarter Employment)	Average monthly earnings of newly stable employees	Dollars	Earnin gs	HirNS
EarnSe pS	ZWFS	sEarnS epS	Average Monthly Earnings (Flows out of Full-Quarter Employment)	Average monthly earnings of separations from full-quarter status at an establishment	Dollars	Earnin gs	SepSnx
Payroll	W1	sPayrol l	Total Quarterly Payroll	Total quarterly payroll for all jobs	Dollars	Earnin gs	1

4.3.2. National QWI and State-Level QWI Rates

Rates are computed from published data, and are provided as a convenience.

(variables_qwir.csv)

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
HirAR	AR	sHirAR	Hiring Rate (All Accessions)	All accessions as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
HirNR	HR	sHirNR	New Hiring Rate	New hires as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
HirRR	RR	sHirRR	Recall Rate	Recall hires as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
SepR	SR	sSepR	Separation Rate (All Separations)	All separations as a percent of average employment	Rate	Separa tion	(Emp + EmpEn d)/2
HirAEn dR	CAR	sHirAE ndR	End-of-Quarter Hiring Rate	Hires as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
SepBeg R	CSR	sSepBe gR	Beginning-of- Quarter Separation Rate	Separations as a percent of average employment	Rate	Separa tion	(Emp + EmpEn d)/2
HirAEn dReplR	EIR	sHirAE ndRepl R	1	Replacement hires as a percent of average employment	Rate	Hire	(Emp + EmpEn d)/2
HirASR	FAR	sHirAS R	Hiring Rate (Flows into Full-Quarter Employment)	Flows into stable employment as a percent of average stable employment	Rate	Hire	(EmpS pv + EmpS)/ 2
HirNSR	FHR	sHirNS R	New Hiring Rate (New Hires to Full- Quarter Status)	New hires into stable employment as a percent of average stable employment	Rate	Hire	(EmpS pv + EmpS)/ 2

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
SepSR	FSR	sSepSR	Separation Rate (Flows out of Full- Quarter Employment)	Flows out of stable employment as a percent of average stable employment	Rate	Separa tion	(EmpS) pv + EmpS)/ 2
SepSnx R	FSnxR	sSepSn xR	Separation Rate in the Next Quarter (Flow out of Full- Quarter Employment)	Flow rate out of stable employment in the next quarter	Rate	Separa tion	(EmpS pv + EmpS)/ 2
TurnO vrSR	FTR	sTurnO vrSR	Turnover Rate (Stable)	The rate at which stable jobs begin and end	Rate	Turnov er	2*Emp S
FrmJb GnR	JCR	sFrmJb GnR	Firm Job Gain Rate (Job Creation Rate)	Estimated number of jobs gained at firms throughout the quarter as a percent of average employment	Rate	Job Flows	(Emp + EmpEn d)/2
FrmJbL sR	JDR	sFrmJb LsR	Firm Job Loss Rate (Job Destruction Rate)	Estimated number of jobs lost at firms throughout the quarter as a percent of average employment	Rate	Job Flows	(Emp + EmpEn d)/2
FrmJbC R	JFR	sFrmJb CR	Firm Job Change Rate (Net Change Rate)	Difference between firm job gain and firm job loss as a percent of average employment	Rate	Job Flows	(Emp + EmpEn d)/2
FrmJb GnSR	FJCR	sFrmJb GnSR	Firm Job Gain Rate (Stable)	Estimated number of full-quarter jobs gained at firms as a percent of average stable employment	Rate	Job Flows	(EmpS pv + EmpS)/ 2
FrmJbL sSR	FJDR	sFrmJb LsSR	Firm Job Loss Rate (Stable)	Estimated number of full-quarter jobs lost at firms as a percent of average stable employment	Rate	Job Flows	(EmpS pv + EmpS)/ 2

Indicat or Variab le	Altern ate Name	Status Flag	Indicator Name	Description	Units	Conce pt	Base
FrmJbC SR	FJFR	sFrmJb CSR	Firm Job Change Rate (Stable; Net Change Rate)	Net growth in jobs that last a full quarter as a percent of average stable employment	Rate	Job Flows	(EmpS pv + EmpS)/ 2

4.3.3. Job-to-Job Flow Counts (J2J)

(variables_j2j.csv)

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
MHire	all_dom a2	sMHire	Hires	Hires into a worker's main job	Count	Hire	1
MSep	all_dom s2	sMSep	Separations	Separations from a worker's main job	Count	Separat ion	1
MJobSt art	first_do me	sMJobS tart	Main Job Starts	New main jobs due to hires and instances when a previously existing secondary job becomes the main source of earnings	Count	Hire	1
MJobEn d	last_do mb	sMJobE nd	Main Job Ends	End of main jobs due to separations and instances when another job becomes the main source of earnings	Count	Separat	1
EEHire	ee_dom a2	sEEHire	Job-to-Job Hires (Continuous Employment)	Hires following a separation with no observed nonemployment spell	Count	Hire	1
EESep	ee_dom s2	sEESep	Job-to-Job Separations (Continuous Employment)	Separations followed by a hire with no observed nonemployment spell	Count	Separat ion	1
AQHire	aq_dom a2	sAQHir e	Job-to-Job Hires (Brief Nonemployment)	Hires following a separation with a short nonemployment spell	Count	Hire	1
AQSep	aq_dom s2	sAQSep	Job-to-Job Separations (Brief Nonemployment)	Separations followed by a hire with a short nonemployment spell	Count	Separat ion	1

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
J2JHire	j2j_dom a2	sJ2JHir e	Job-to-Job Hires	Hires following a separation (short or no observed nonemployment spell)	Count	Hire	1
J2JSep	j2j_dom s2	sJ2JSep	Job-to-Job Separations	Separations followed by a hire (short or no observed nonemployment spell)	Count	Separat ion	1
NEHire	ne_dom a2	sNEHir e	Hires from Nonemployment	Hires following any spell of nonemployment	Count	Hire	1
ENSep	en_dom s2	sENSep	Separations to Nonemployment	Separations into any spell of nonemployment	Count	Separat ion	1
NEPersi st	ne2_do ma2	sNEPer sist	Hires from Persistent Nonemployment	Hires following a spell of persistent nonemployment	Count	Hire	1
ENPersi st	en2_do ms2	sENPer sist	Separations to Persistent Nonemployment	Separations into a spell of persistent nonemployment	Count	Separat ion	1
NEFull Q	ne2p_d oma2	sNEFull Q	Hires from Full- Quarter Nonemployment	Hires following a spell of full-quarter nonemployment (does not include intermittently employed)	Count	Hire	1
ENFull Q	en2p_d oms2	sENFull Q	Separations to Full- Quarter Nonemployment	Separations into a spell of full-quarter nonemployment (does not include intermittently employed)	Count	Separat ion	1
MainB	domB	sMainB	Employment (Beginning of Quarter)	Main jobs held on the first day of the quarter	Count	Employ ment	1

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
MainE	domE	sMainE	Employment (End of Quarter)	Main jobs held on the last day of the quarter	Count	Employ ment	1
EESepS	fee_do ms2	sEESep S	Stable Job-to-Job Separations (Continuous Employment)	Separations from stable employment followed by a hire to stable employment with no observed nonemployment spell	Count	Separat	1
EEHire S	fee_do ma2	sEEHire S	Stable Job-to-Job Hires (Continuous Employment)	Hires to stable employment following a separation from stable employment with no observed nonemployment spell	Count	Hire	1
AQSepS	faq_do ms2	sAQSep S	Stable Job-to-Job Separations (Brief Nonemployment)	Separations from stable employment followed by a hire to stable employment with a short nonemployment spell	Count	Separat	1
AQHire S	faq_do ma2	sAQHir eS	Stable Job-to-Job Hires (Brief Nonemployment)	Hires to stable employment following a separation from stable employment with a short nonemployment spell	Count	Hire	1
NEPersi stS	fne2_do ma2	sNEPer sistS	Stable Hires from Persistent Nonemployment	Hires to stable employment following a spell of persistent nonemployment	Count	Hire	1

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
ENPersi stS	fen2_do ms2	sENPer sistS	Stable Separations to Persistent Nonemployment	Separations from stable employment into a spell of persistent nonemployment	Count	Separat ion	1
JobStay S	f4domb e	sJobSta yS	Stable Job Stayer	Stable main jobs that did not change during the reference quarter	Count	Employ ment	1
MainBS	fdomb	sMainB S	Stable Employment (Beginning of Quarter)	Stable main jobs held on the first day of the quarter	Count	Employ ment	1
MainES	fdome	sMainE S	Stable Employment (End of Quarter)	Stable main jobs held on the last day of the quarter	Count	Employ ment	1
NEHire SEarn_ Dest	fne2_do ma2_kf qearn		Average Earnings following Stable Hires from Persistent Nonemployment	Average quarterly earnings following hires to stable employment from a spell of persistent nonemployment	Dollars	Earning s	NE Per sist S
_		_	Average Earnings prior to Stable Separations to Persistent Nonemployment	Average quarterly earnings prior to separations from stable employment into a spell of persistent nonemployment	Dollars	Earning s	EN Per sist S
JobStay SEarn_ Orig		-	Average Earnings prior to Stable Job Stayer	Average quarterly earnings in the previous quarter when workers stayed in a stable job	Dollars	Earning s	Job Sta yS
JobStay SEarn_ Dest		_	Average Earnings following Stable Job Stayer	Average quarterly earnings in the quarter when workers stayed in a stable job	Dollars	Earning s	Job Sta yS

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
EESepS Earn_O rig	fee_do ms2_jfq earn	_	Average Earnings prior to Stable Job-to- Job Separations (Continuous Employment)	Average quarterly earnings prior to job flows with no observed nonemployment spell	Dollars	Earning s	EE Se pS
EEHire SEarn_ Dest	fee_do ma2_kf qearn		Average Earnings following Stable Job- to-Job Hires (Continuous Employment)	Average quarterly earnings following job flows with no observed nonemployment spell	Dollars	Earning s	EE Hir eS
AQSepS Earn_O rig	faq_do ms2_jfq earn		Average Earnings prior to Stable Job-to- Job Separations (Brief Nonemployment)	Average quarterly earnings prior to job flows with a short nonemployment spell	Dollars	Earning s	AQ Se pS
AQHire SEarn_ Dest	faq_do ma2_kf qearn	_	Average Earnings following Stable Job- to-Job Hires (Brief Nonemployment)	Average quarterly earnings following job flows with a short nonemployment spell	Dollars	Earning s	AQ Hir eS

4.3.4. Job-to-Job Flow Rates (J2JR)

(variables_j2jr.csv)

Rates are computed from published data, and are provided as a convenience.

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
MHireR	all_dom a2_rate	sMHire R	Hires	Rate of hires into a worker's main job	Rate	Hire	((M ain B+ Ma inE)/2)
MSepR	all_dom s2_rate	sMSepR	Separations	Rate of separations from a worker's main job	Rate	Separat ion	((M ain B+ Ma inE)/2)
MJobSt artR	first_do me_rat e	sMJobS tartR	Main Job Starts	Rate of new main jobs due to hires and instances when a previously existing secondary job becomes the main source of earnings	Rate	Hire	((M ain B+ Ma inE)/2)
MJobEn dR	last_do mb_rat e	sMJobE ndR	Main Job Ends	Rate of end of main jobs due to separations and instances when another job becomes the main source of earnings	Rate	Separat	((M ain B+ Ma inE)/2)
EEHire R	ee_dom a2_rate	sEEHire R	Job-to-Job Hires (Continuous Employment)	Rate of hires following a separation with no observed nonemployment spell	Rate	Hire	((M ain B+ Ma inE)/2)

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
EESepR	ee_dom s2_rate	sEESep R	Job-to-Job Separations (Continuous Employment)	Rate of separations followed by a hire with no observed nonemployment spell	Rate	Separat ion	((M ain B+ Ma inE)/2)
AQHire R	aq_dom a2_rate	sAQHir eR	Job-to-Job Hires (Brief Nonemployment)	Rate of hires following a separation with a short nonemployment spell	Rate	Hire	((M ain B+ Ma inE)/2)
AQSepR	aq_dom s2_rate	sAQSep R	Job-to-Job Separations (Brief Nonemployment)	Rate of separations followed by a hire with a short nonemployment spell	Rate	Separat ion	((M ain B+ Ma inE)/2)
J2JHire R	j2j_dom a2_rate	sJ2JHir eR	Job-to-Job Hires	Rate of hires following a separation (short or no observed nonemployment spell)	Rate	Hire	((M ain B+ Ma inE)/2)
J2JSepR	j2j_dom s2_rate	sJ2JSep R	Job-to-Job Separations	Rate of separations followed by a hire (short or no observed nonemployment spell)	Rate	Separat ion	((M ain B+ Ma inE)/2)
NEHire R	ne_dom a2_rate	sNEHir eR	Hires from Nonemployment	Rate of hires following any spell of nonemployment	Rate	Hire	((M ain B+ Ma inE)/2)

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
ENSepR	en_dom s2_rate	sENSep R	Separations to Nonemployment	Rate of separations into any spell of nonemployment	Rate	Separat	((M ain B+ Ma inE)/2)
NEPersi stR	ne2_do ma2_ra te	sNEPer sistR	Hires from Persistent Nonemployment	Rate of hires following a spell of persistent nonemployment	Rate	Hire	((M ain B+ Ma inE)/2)
ENPersi stR	en2_do ms2_rat e	sENPer sistR	Separations to Persistent Nonemployment	Rate of separations into a spell of persistent nonemployment	Rate	Separat	((M ain B+ Ma inE)/2)
NEFull QR	ne2p_d oma2_r ate	sNEFull QR	Hires from Full- Quarter Nonemployment	Rate of hires following a spell of full-quarter nonemployment (does not include intermittently employed)	Rate	Hire	((M ain B+ Ma inE)/2)
ENFull QR	en2p_d oms2_r ate	sENFull QR	Separations to Full- Quarter Nonemployment	Rate of separations into a spell of full-quarter nonemployment (does not include intermittently employed)	Rate	Separat ion	((M ain B+ Ma inE)/2)

4.3.5. Job-to-Job Flow Origin-Destination (J2JOD)

(variables_j2jod.csv)

Indicat or Variabl e	Altern ate Name	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
EE	ee_dom a2	sEE	Job-to-Job Flows (Continuous Employment)	Job flows with no observed nonemployment spell	Count	Hire	1
AQHire	aq_dom a2	sAQHir e	Job-to-Job Flows (Brief Nonemployment)	Job flows with a short nonemployment spell	Count	Hire	1
EES	fee_do ma2	sEES	Stable Job-to-Job Flows (Continuous Employment)	Job flows from stable employment into stable employment with no observed nonemployment spell	Count	Hire	1
AQHire S	faq_do ma2	sAQHir eS	Stable Job-to-Job Flows (Brief Nonemployment)	Job flows from stable employment into stable employment with a short nonemployment spell	Count	Hire	1
EESEar n_Orig	fee_do ma2_jfq earn		Average Earnings prior to Job-to-Job Flows (Continuous Employment)	Average quarterly earnings prior to job flows with no observed nonemployment spell	Dollars	Earning s	EE S
EESEar n_Dest	fee_do ma2_kf qearn		Average Earnings following Job-to-Job Flows (Continuous Employment)	Average quarterly earnings following job flows with no observed nonemployment spell	Dollars	Earning s	EE S
AQHire SEarn_ Orig	-	_	Average Earnings prior to Job-to-Job Flows (Brief Nonemployment)	Average quarterly earnings prior to job flows with a short nonemployment spell	Dollars	Earning s	AQ Hir eS

Indicat or Variabl e	ate	Status Flag	Indicator Name	Description	Units	Concep t	Ba se
AQHire SEarn_ Dest	faq_do ma2_kf qearn		Average Earnings following Job-to-Job Flows (Brief Nonemployment)	Average quarterly earnings following job flows with a short nonemployment spell	Dollars	Earning s	AQ Hir eS

4.3.6. Post-Secondary Employment Outcomes Earnings (PSEOE)

(variables_pseoe.csv)

Indicator Variable	Status Flag	Description	Unit s	Concept
y1_p25_earn ings	status_y1_earni ngs	Earnings 25th Percentile in Year 1 (2019 Dollars)	Dolla rs	Earnings
y1_p50_earn ings	status_y1_earni ngs	Earnings 50th Percentile in Year 1 (2019 Dollars)	Dolla rs	Earnings
y1_p75_earn ings	status_y1_earni ngs	Earnings 75th Percentile in Year 1 (2019 Dollars)	Dolla rs	Earnings
y1_grads_ea rn	status_y1_grads _earn	Count of Employed Graduates in Year 1	Coun t	Employ ment
y5_p25_earn ings	status_y5_earni ngs	Earnings 25th Percentile in Year 5 (2019 Dollars)	Dolla rs	Earnings
y5_p50_earn ings	status_y5_earni ngs	Earnings 50th Percentile in Year 5 (2019 Dollars)	Dolla rs	Earnings
y5_p75_earn ings	status_y5_earni ngs	Earnings 75th Percentile in Year 5 (2019 Dollars)	Dolla rs	Earnings
y5_grads_ea rn	status_y5_grads _earn	Count of Employed Graduates in Year 5	Coun t	Employ ment
y10_p25_ear nings	status_y10_earn ings	Earnings 25th Percentile in Year 10 (2019 Dollars)	Dolla rs	Earnings
y10_p50_ear nings	status_y10_earn ings	Earnings 50th Percentile in Year 10 (2019 Dollars)	Dolla rs	Earnings
y10_p75_ear nings	status_y10_earn ings	Earnings 75th Percentile in Year 10 (2019 Dollars)	Dolla rs	Earnings
y10_grads_e arn	status_y10_grad s_earn	Count of Employed Graduates in Year 10	Coun t	Employ ment
y1_ipeds_co unt	status_y1_ipeds _count	Count of IPEDS Reported Graduates of Programs Included in Year 1 Earnings	Coun t	Graduat es
y5_ipeds_co unt	status_y5_ipeds _count	Count of IPEDS Reported Graduates of Programs Included in Year 5 Earnings	Coun t	Graduat es
y10_ipeds_c ount	status_y10_iped s_count	Count of IPEDS Reported Graduates of Programs Included in Year 10 Earnings	Coun t	Graduat es

4.3.7. Post-Secondary Employment Outcomes Flows (PSEOF)

(variables_pseof.csv)

Indicator Variable	Status Flag	Description	Uni ts	Concep t
y1_grads_emp	status_y1_grads_e mp	Count of Employed Graduates in Year 1	Cou nt	Employ ment
y1_grads_emp	status_y1_grads_e	Count of Graduates Employed in Same State as	Cou	Employ
_instate	mp_instate	Educational Institution in Year 1	nt	ment
y5_grads_emp	status_y5_grads_e mp	Count of Employed Graduates in Year 5	Cou nt	Employ ment
y5_grads_emp	status_y5_grads_e	Count of Graduates Employed in Same State as	Cou	Employ
_instate	mp_instate	Educational Institution in Year 5	nt	ment
y10_grads_em	status_y10_grads_ emp	Count of Employed Graduates in Year 10	Cou nt	Employ ment
y10_grads_em	status_y10_grads_	Count of Graduates Employed in Same State as	Cou	Employ
p_instate	emp_instate	Educational Institution in Year 10	nt	ment
y1_grads_nme	status_y1_grads_n	Count of Graduates Jobless or Marginally	Cou	Employ
	me	Employed in Year 1	nt	ment
y5_grads_nme	status_y5_grads_n	Count of Graduates Jobless or Marginally	Cou	Employ
	me	Employed in Year 5	nt	ment
y10_grads_nm	status_y10_grads_	Count of Graduates Jobless or Marginally	Cou	Employ
e	nme	Employed in Year 10	nt	ment

4.4. 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.

Six variability measures are published:

- Total variability, prefixed by vt_
- Standard error, prefixed by st_, and computed as the square root of Total Variability
- Between-implicate variability, prefixed by vb_
- Average within-implicate variability, prefixed by vw_
- Degrees of freedom, prefixed by df_
- Missingness ratio, prefixed by mr_

A missing variability measure indicates a structural zero in the corresponding indicator. This is currently not associated with a flag.

4.4.1. Generic Structure

Column name
[Identifier1]
[Identifier2]
[Identifier3]
[]
[Standard error for Indicator 1]
[Standard error for Indicator 2]
[Standard error for Indicator 3]
[]
[Total variation for Indicator 1]
[Total variation for Indicator 2]
[Total variation for Indicator 3]
[]
[Between-implicate variability for Indicator 1]
[Between-implicate variability for Indicator 2]
[Between-implicate variability for Indicator 3]
[]

Column name
[Average within-implicate variability for Indicator 1]
[Average within-implicate variability for Indicator 2]
[Average within-implicate variability 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]
[]

Note: A full list of indicators for each type of file are shown in the <u>Indicators</u> 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.

4.4.2. National QWI and State-Level QWI

(variables_qwiv.csv)

Variability measure	Variable name	Units
st_Emp	Standard error of Beginning-of-Quarter Employment	Count
st_EmpEnd	Standard error of End-of-Quarter Employment	Count
st_EmpS	Standard error of Full-Quarter Employment (Stable)	Count
vt_Emp	Total variation of Beginning-of-Quarter Employment	Count
vt_EmpEnd	Total variation of End-of-Quarter Employment	Count
vt_EmpS	Total variation of Full-Quarter Employment (Stable)	Count
vb_Emp	Between-implicate variability for Beginning-of-Quarter Employment	Count
vb_EmpEnd	Between-implicate variability for End-of-Quarter Employment	Count
vb_EmpS	Between-implicate variability for Full-Quarter Employment (Stable)	Count
vm_Emp	Average within-implicate variability for Beginning-of- Quarter Employment	Count
vm_EmpEnd	Average within-implicate variability for End-of-Quarter Employment	Count
vm_EmpS	Average within-implicate variability for Full-Quarter Employment (Stable)	Count
df_Emp	Degrees of freedom for VT of Beginning-of-Quarter Employment	Count
df_EmpEnd	Degrees of freedom for VT of End-of-Quarter Employment	Count
df_EmpS	Degrees of freedom for VT of Full-Quarter Employment (Stable)	Count
mr_HirA	Missingness ratio for Hires (All Accessions)	Count
mr_HirN	Missingness ratio for New Hires	Count
mr_HirR	Missingness ratio for Recall Hires	Count

4.4.3. National QWI and State-Level QWI Rates

(variables_qwirv.csv)

Variability measure	Variable name	Units
st_HirAR	Standard error of Hiring Rate (All Accessions)	Rate
st_HirNR	Standard error of New Hiring Rate	Rate
st_HirRR	Standard error of Recall Rate	Rate
vt_HirAR	Total variation of Hiring Rate (All Accessions)	Rate
vt_HirNR	Total variation of New Hiring Rate	Rate
vt_HirRR	Total variation of Recall Rate	Rate
vb_HirAR	Between-implicate variability for Hiring Rate (All Accessions)	Rate
vb_HirNR	Between-implicate variability for New Hiring Rate	Rate
vb_HirRR	Between-implicate variability for Recall Rate	Rate
vm_HirAR	Average within-implicate variability for Hiring Rate (All Accessions)	Rate
vm_HirNR	Average within-implicate variability for New Hiring Rate	Rate
vm_HirRR	Average within-implicate variability for Recall Rate	Rate
df_HirAR	Degrees of freedom for VT of Hiring Rate (All Accessions)	Rate
df_HirNR	Degrees of freedom for VT of New Hiring Rate	Rate
df_HirRR	Degrees of freedom for VT of Recall Rate	Rate
mr_HirAR	Missingness ratio for Hiring Rate (All Accessions)	Rate
mr_HirNR	Missingness ratio for New Hiring Rate	Rate
mr_HirRR	Missingness ratio for Recall Rate	Rate

4.4.4. Job-to-Job Flow Counts (J2J)

(variables_j2j.csv)

Indicator Variable	Indicator Name	Description	Concept
MHire	Hires	Hires into a worker's main job	Hire
MSep	Separations	Separations from a worker's main job	Separation
MJobStart	Main Job Starts	New main jobs due to hires and instances when a previously existing secondary job becomes the main source of earnings	Hire
MJobEnd	Main Job Ends	End of main jobs due to separations and instances when another job becomes the main source of earnings	Separation
EEHire	Job-to-Job Hires (Continuous Employment)	Hires following a separation with no observed nonemployment spell	Hire
EESep	Job-to-Job Separations (Continuous Employment)	Separations followed by a hire with no observed nonemployment spell	Separation
AQHire	Job-to-Job Hires (Brief Nonemploymen t)	Hires following a separation with a short nonemployment spell	Hire
AQSep	Job-to-Job Separations (Brief Nonemploymen t)	Separations followed by a hire with a short nonemployment spell	Separation
J2JHire	Job-to-Job Hires	Hires following a separation (short or no observed nonemployment spell)	Hire
J2JSep	Job-to-Job Separations	Separations followed by a hire (short or no observed nonemployment spell)	Separation
NEHire	Hires from Nonemploymen t	Hires following any spell of nonemployment	Hire
ENSep	Separations to Nonemploymen t	Separations into any spell of nonemployment	Separation

Indicator Variable	Indicator Name	Description	Concept
NEPersist	Hires from Persistent Nonemploymen t	Hires following a spell of persistent nonemployment	Hire
ENPersist	Separations to Persistent Nonemploymen t	Separations into a spell of persistent nonemployment	Separation
NEFullQ	Quarter	Hires following a spell of full-quarter nonemployment (does not include intermittently employed)	Hire
ENFullQ	Separations to Full-Quarter Nonemploymen t	Separations into a spell of full-quarter nonemployment (does not include intermittently employed)	Separation
MainB	Employment (Beginning of Quarter)	Main jobs held on the first day of the quarter	Employment
MainE	Employment (End of Quarter)	Main jobs held on the last day of the quarter	Employment
EESepS	Stable Job-to- Job Separations (Continuous Employment)	Separations from stable employment followed by a hire to stable employment with no observed nonemployment spell	Separation
EEHireS	Stable Job-to- Job Hires (Continuous Employment)	Hires to stable employment following a separation from stable employment with no observed nonemployment spell	Hire
AQSepS	Stable Job-to- Job Separations (Brief Nonemploymen t)	Separations from stable employment followed by a hire to stable employment with a short nonemployment spell	Separation
AQHireS	Stable Job-to- Job Hires (Brief Nonemploymen t)	Hires to stable employment following a separation from stable employment with a short nonemployment spell	Hire

Indicator Variable	Indicator Name	Description	Concept
NEPersistS	Stable Hires from Persistent Nonemploymen t	Hires to stable employment following a spell of persistent nonemployment	Hire
ENPersistS	Stable Separations to Persistent Nonemploymen t	Separations from stable employment into a spell of persistent nonemployment	Separation
JobStayS	Stable Job Stayer	Stable main jobs that did not change during the reference quarter	Employment
MainBS	Stable Employment (Beginning of Quarter)	Stable main jobs held on the first day of the quarter	Employment
MainES	Stable Employment (End of Quarter)	Stable main jobs held on the last day of the quarter	Employment
NEHireSEarn_D est	Earnings	Average quarterly earnings following hires to stable employment from a spell of persistent nonemployment	Earnings
ENSepSEarn_Or ig	Average Earnings prior to Stable Separations to Persistent Nonemploymen t	Average quarterly earnings prior to separations from stable employment into a spell of persistent nonemployment	Earnings
JobStaySEarn_O rig	Average Earnings prior to Stable Job Stayer	Average quarterly earnings in the previous quarter when workers stayed in a stable job	Earnings
JobStaySEarn_D est	Average Earnings following Stable Job Stayer	Average quarterly earnings in the quarter when workers stayed in a stable job	Earnings

Indicator Variable	Indicator Name	Description	Concept
EESepSEarn_Or ig	Average Earnings prior to Stable Job-to- Job Separations (Continuous Employment)	Average quarterly earnings prior to job flows with no observed nonemployment spell	Earnings
EEHireSEarn_D est	Average Earnings following Stable Job-to-Job Hires (Continuous Employment)	Average quarterly earnings following job flows with no observed nonemployment spell	Earnings
AQSepSEarn_Or ig	Average Earnings prior to Stable Job-to- Job Separations (Brief Nonemploymen t)	Average quarterly earnings prior to job flows with a short nonemployment spell	Earnings
AQHireSEarn_D est	Average Earnings following Stable Job-to-Job Hires (Brief Nonemploymen t)	Average quarterly earnings following job flows with a short nonemployment spell	Earnings

4.4.5. Job-to-Job Flow Rates (J2JR)

(variables_j2j.csv)

Indicator Variable	Indicator Name	Description	Concept
MHireR	Hires	Rate of hires into a worker's main job	Hire
MSepR	Separations	Rate of separations from a worker's main job	Separation
MJobStartR	Main Job Starts	Rate of new main jobs due to hires and instances when a previously existing secondary job becomes the main source of earnings	Hire
MJobEndR	Main Job Ends	Rate of end of main jobs due to separations and instances when another job becomes the main source of earnings	Separation
EEHireR	Job-to-Job Hires (Continuous Employment)	Rate of hires following a separation with no observed nonemployment spell	Hire
EESepR	Job-to-Job Separations (Continuous Employment)	Rate of separations followed by a hire with no observed nonemployment spell	Separation
AQHireR	Job-to-Job Hires (Brief Nonemploymen t)	Rate of hires following a separation with a short nonemployment spell	Hire
AQSepR	Job-to-Job Separations (Brief Nonemploymen t)	Rate of separations followed by a hire with a short nonemployment spell	Separation
J2JHireR	Job-to-Job Hires	Rate of hires following a separation (short or no observed nonemployment spell)	Hire
J2JSepR	Job-to-Job Separations	Rate of separations followed by a hire (short or no observed nonemployment spell)	Separation
NEHireR	Hires from Nonemploymen t	Rate of hires following any spell of nonemployment	Hire
ENSepR	Separations to Nonemploymen t	Rate of separations into any spell of nonemployment	Separation

Indicator Variable	Indicator Name	Description	Concept
NEPersistR	Hires from Persistent Nonemploymen t	Rate of hires following a spell of persistent nonemployment	Hire
ENPersistR	Separations to Persistent Nonemploymen t	Rate of separations into a spell of persistent nonemployment	Separation
NEFullQR	Quarter	Rate of hires following a spell of full- quarter nonemployment (does not include intermittently employed)	Hire
ENFullQR	Separations to Full-Quarter Nonemploymen t	Rate of separations into a spell of full- quarter nonemployment (does not include intermittently employed)	Separation

4.4.6. Job-to-Job Flow Origin-Destination (J2JOD)

(variables_j2j.csv)

Indicator Variable	Indicator Name	Description	Concept
EE	Job-to-Job Flows (Continuous Employment)	Job flows with no observed nonemployment spell	Hire
AQHire	Job-to-Job Flows (Brief Nonemploymen t)	Job flows with a short nonemployment spell	Hire
EES	Stable Job-to- Job Flows (Continuous Employment)	Job flows from stable employment into stable employment with no observed nonemployment spell	Hire
AQHireS	*	Job flows from stable employment into stable employment with a short nonemployment spell	Hire
EESEarn_Orig	Average Earnings prior to Job-to-Job Flows (Continuous Employment)	Average quarterly earnings prior to job flows with no observed nonemployment spell	Earnings
EESEarn_Dest	Average Earnings following Job- to-Job Flows (Continuous Employment)	Average quarterly earnings following job flows with no observed nonemployment spell	Earnings
AQHireSEarn_O rig	Average Earnings prior to Job-to-Job Flows (Brief Nonemploymen t)	Average quarterly earnings prior to job flows with a short nonemployment spell	Earnings

Indicator Variable	Indicator Name	Description	Concept
AQHireSEarn_D	Average	Average quarterly earnings following job	Earnings
est	Earnings	flows with a short nonemployment spell	
	following Job-		
	to-Job Flows		
	(Brief		
	Nonemploymen		
	t)		

5. 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.

5.1. 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

5.2. 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)

5.3. Ethnicity

(label_ethnicity.csv)

ethnicity	label
A0	All Ethnicities

ethnicity	label
A1	Not Hispanic or Latino
A2	Hispanic or Latino

5.4. Firmage

(label_firmage.csv)

firmage	label
0	All Firm Ages
1	0-1 Years
2	2-3 Years
3	4-5 Years
4	6-10 Years
5	11+ Years
N	Firm Age Not Available For Public-Sector Firms

5.5. 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
N	Firm Size Not Available For Public-Sector Firms

5.6. Ownercode

(label_ownercode.csv)

ownercod e	label
A00	State and local government plus private ownership
A01	Federal government
A05	All Private

5.7. Periodicity

(label_periodicity.csv)

periodicit y	label
A	Annual data
Q	Quarterly data

5.8. Quarter

(label_quarter.csv)

quarter	label
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)

5.9. 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)

race	label
A7	Two or More Race Groups

5.10. Seasonadj

(label_seasonadj.csv)

seasonadj	label
S	Seasonally adjusted
U	Not seasonally adjusted

5.11. Sex

(label_sex.csv)

sex	label
0	All Sexes
1	Male
2	Female

5.12. Industry

5.12.1. Industry levels

(label_ind_level.csv)

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

5.12.2. Industry

(label_industry.csv)

Only a small subset of available values shown. The 2017 NAICS (North American Industry Classification System) is used for all years. QWI releases prior to R2018Q1 used the 2012 NAICS classification (see Schema v4.1.3). For a full listing of all valid 2017 NAICS codes, see https://www.census.gov/naics/.

industry	label	ind_level
00	All NAICS Sectors	A
000	All NAICS Subsectors	A
0000	All NAICS Industry Groups	A
11	Agriculture, Forestry, Fishing and Hunting	2
111	Crop Production	3
1111	Oilseed and Grain Farming	4
1112	Vegetable and Melon Farming	4
•••		
2383	Building Finishing Contractors	4
2389	Other Specialty Trade Contractors	4
31-33	Manufacturing	2
311	Food Manufacturing	3
3111	Animal Food Manufacturing	4
3112	Grain and Oilseed Milling	4
3113	Sugar and Confectionery Product Manufacturing	4

5.13. Educational Institution

5.13.1. Institution Levels

(label_inst_level.csv)

Educational institutions are tabulated individually in the current data release. Future releases may aggregate to institutions to higher levels, such as state or Census Division.

inst_level	label
I	Institution
S	State of institution
D	Census division of institution
N	All institutions

5.13.2. Institution

(label_institution.csv)

Institution identifiers are sourced from the U.S. Department of Education, Federal Student Aid office. This list has been supplemented with records for regional groupings of institutions (may be used in future PSEO tabulations).

instituti on	label	city	institution_st ate	inst_lev el	statefi ps
1	Institutions in New England Division			D	
2	Institutions in Middle Atlantic Division			D	
3	Institutions in East North Central Division			D	
•••					
00137000	University of Colorado Boulder	Boulder	СО	I	08
00309000	Ohio State University	Columbus	ОН	I	39
00332900	Pennsylvania State University (The)	University Park	PA	I	42
00389500	University of Wisconsin - Madison	Madison	WI	I	55
00955800	University of Texas	Austin	TX	I	48
02458500	University of Michigan	Ann Arbor	MI	I	26
•••					

5.14. Degree Level

(label_degree_level.csv)

The degree levels are sourced from the National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS).

degree_le vel	label
00	All Degree Levels
01	Certificate < 1 year
02	Certificate 1-2 years
03	Associates
04	Certificate 2-4 years
05	Baccalaureate
06	Post-Bacc Certificate
07	Masters
08	Post-Masters Certificate
17	Doctoral - Research/Scholarship
18	Doctoral - Professional Practice

5.15. Classification of Instruction Programs (CIP)

5.15.1. CIP Levels

(label_cip_level.csv)

cip_level	label
A	All Degree Fields
2	2-Digit CIP Family
4	4-Digit CIP Codes
6	6-Digit CIP Codes

5.15.2. CIP Codes

(label_cipcode.csv)

CIP codes are sourced from the National Center for Education Statistics (NCES), Integrated Postsecondary Education Data System (IPEDS). Data are reported using 2020 CIP codes, for all years.

cipcod e	label	cip_le vel	CIPFa mily	CIPDefinition
00	All Instructional Programs	A	00	All CIP Codes
01	Agricultural/A nimal/Plant/Ve terinary Science and Related Fields	2	01	Instructional programs that focus on agriculture, animal, plant, veterinary, and related sciences and that prepares individuals to apply specific knowledge, methods, and techniques to the management and performance of agricultural and veterinary operations.
01.00	Agriculture, General	4	01	Instructional content is defined in code 01.0000.
01.000	Agriculture, General	6	01	A program that focuses on the general principles and practice of agricultural research and production and that may prepare individuals to apply this knowledge to the solution of practical agricultural problems. Includes instruction in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching, and agricultural business.
01.XX	Agricultural/A nimal/Plant/Ve terinary Science and Related Fields (Consolidated 0100-0199)	4	01	Instructional programs that focus on agriculture, animal, plant, veterinary, and related sciences and that prepares individuals to apply specific knowledge, methods, and techniques to the management and performance of agricultural and veterinary operations.
03	Natural Resources and Conservation	2	03	Instructional programs that focus on the various natural resources and conservation fields and prepare individuals for related occupations.

5.16. Grad Cohort

<code>grad_cohort</code> is a 4-digit number representing the first year of the graduation cohort. The number of years in the cohort is reported in the separate <code>Grad Cohort Years</code> variable.

If grad_cohort=2010 and grad_cohort_years=3, then the cell includes graduates from 2010, 2011, and 2012.

When tabulating across all cohorts, the value **0000** will be used for grad_cohort.

5.17. Grad Cohort Years

grad_cohort_years is the number of years in the cohort of reference (see Grad Cohort). It varies by Degree Level .Bachelor's degrees (05) are reported in 3 year cohorts, all other degrees are reported in 5 year cohorts. The grad_cohort_years will take a value (3,5). As tabulations are not done across degree types, the appropriate value will be reported in grad_cohort_years when grad_cohort=0000.

5.18. Geography

5.18.1. Geographic Levels

(label_geo_level.csv)

Geography labels for data files are provided in separate files, by scope.Each file 'label_geography_SCOPE.csv' may contain one or more types of records as flagged by geo_level. For convenience, a composite file containing all geocodes is available as label_geography.csv. The 2021 vintage of Census TIGER/Line geography is used for all tabulations as of the R2022Q2 release.

Shapefiles are described in a separate document.

geo_l evel	label	description
N	National (50 States + DC)	Custom code using '00' to denote national scope
D	Divisions	Identifies 1-digit multi-state Census Divisions
S	States	Identifies 2-digit FIPS/ANSI codes
С	Counties	Identifies 5-digit FIPS/ANSI code for counties
M	Metropolitan/Microp olitan (state part)	Identifies 7-digit code constructed from the 2-digit state FIPS code and the 5-digit CBSA code provided by the Census Bureau's Geography Division
В	Metropolitan (complete)	Identifies 5-digit CBSA code for metropolitan areas provided by the Census Bureau's Geography Division. Balance of state including micropolitan areas are identified by custom codes as [ST]999
W	Workforce Investment Areas	2-digit state FIPS code and the 6-digit WIA identifier provided by LED State Partners

5.18.2. National and State-Level Values

(label_fipsnum.csv)

The file label_fipsnum.csv contains values and labels for all entities of geo_level 'N' or 'S', and is a summary of separately available files.

geograph y	label	geo_leve
00	National (50 States + DC)	N
01	Alabama	S
02	Alaska	S
04	Arizona	S
05	Arkansas	S
•••		

(label_geography_division.csv)

The file label_geography_division.csv contains values and labels for all entities of geo_level 'D'. For more information on which states comprise each division, see the map here.

geograph y	label	geo_leve
1	New England Division	D
2	Middle Atlantic Division	D
3	East North Central Division	D
4	West North Central Division	D
5	South Atlantic Division	D
6	East South Central Division	D
7	West South Central Division	D
8	Mountain Division	D
9	Pacific Division	D
Z	Unclassified	D

5.18.3. State Postal Codes

Some parts of the schema use (lower or upper-case) state postal codes.

(label_stusps.csv)

geograph y	stusp s	label
00	US	National (50 States + DC)
01	AL	Alabama
02	AK	Alaska
04	AZ	Arizona
05	AR	Arkansas

geograph y	stusp s	label
06	CA	California
08	СО	Colorado
09	СТ	Connecticut
10	DE	Delaware
11	DC	District of Columbia
12	FL	Florida
13	GA	Georgia
15	HI	Hawaii
16	ID	Idaho
17	IL	Illinois
18	IN	Indiana
19	IA	Iowa
20	KS	Kansas
21	KY	Kentucky
22	LA	Louisiana
23	ME	Maine
24	MD	Maryland
25	MA	Massachusetts
26	MI	Michigan
27	MN	Minnesota
28	MS	Mississippi
29	MO	Missouri
30	MT	Montana
31	NE	Nebraska
32	NV	Nevada
33	NH	New Hampshire
34	NJ	New Jersey
35	NM	New Mexico
36	NY	New York
37	NC	North Carolina
38	ND	North Dakota
39	ОН	Ohio
40	OK	Oklahoma

geograph y	stusp s	label
41	OR	Oregon
42	PA	Pennsylvania
44	RI	Rhode Island
45	SC	South Carolina
46	SD	South Dakota
47	TN	Tennessee
48	TX	Texas
49	UT	Utah
50	VT	Vermont
51	VA	Virginia
53	WA	Washington
54	WV	West Virginia
55	WI	Wisconsin
56	WY	Wyoming
72	PR	Puerto Rico
78	VI	United States Virgin Islands

5.18.4. Detailed State and Substate Level Values

Files of type 'label_geography_[ST].csv' will contain identifiers and labels for geographic areas entirely comprised within a given state '[ST]'. State-specific parts of cross-state CBSA, in records of type geo_level = M, are present on files of type 'label_geography_[ST].csv'. The file label_geography_metro.csv contains labels for records of type geo_level = B, for metropolitan areas only.

Scope	Types	Format file
US	N	label_geography_us.csv
DIVISION	D	label_geography_division.csv
METRO	В	label_geography_metro.csv
AK	S C W M	label_geography_ak.csv
AL	S C W M	label_geography_al.csv
AR	S C W M	label_geography_ar.csv
AZ	S C W M	label_geography_az.csv
CA	S C W M	label_geography_ca.csv
CO	S C W M	label_geography_co.csv

Scope	Types	Format file
СТ	S C W M	label_geography_ct.csv
DC	S C W M	label_geography_dc.csv
DE	S C W M	label_geography_de.csv
FL	S C W M	label_geography_fl.csv
GA	S C W M	label_geography_ga.csv
HI	S C W M	label_geography_hi.csv
IA	S C W M	label_geography_ia.csv
ID	S C W M	label_geography_id.csv
IL	S C W M	label_geography_il.csv
IN	S C W M	label_geography_in.csv
KS	S C W M	label_geography_ks.csv
KY	S C W M	label_geography_ky.csv
LA	S C W M	label_geography_la.csv
MA	S C W M	label_geography_ma.csv
MD	S C W M	label_geography_md.csv
ME	S C W M	label_geography_me.csv
MI	S C W M	label_geography_mi.csv
MN	S C W M	label_geography_mn.csv
MO	S C W M	label_geography_mo.csv
MS	S C W M	label_geography_ms.csv
MT	S C W M	label_geography_mt.csv
NC	S C W M	label_geography_nc.csv
ND	S C W M	label_geography_nd.csv
NE	S C W M	label_geography_ne.csv
NH	S C W M	label_geography_nh.csv
NJ	S C W M	label_geography_nj.csv
NM	S C W M	label_geography_nm.csv
NV	S C W M	label_geography_nv.csv
NY	S C W M	label_geography_ny.csv
ОН	S C W M	label_geography_oh.csv
OK	S C W M	label_geography_ok.csv
OR	S C W M	label_geography_or.csv
PA	S C W M	label_geography_pa.csv

Scope	Types	Format file
PR	S C W M	label_geography_pr.csv
RI	S C W M	label_geography_ri.csv
SC	S C W M	label_geography_sc.csv
SD	S C W M	label_geography_sd.csv
TN	S C W M	label_geography_tn.csv
TX	S C W M	label_geography_tx.csv
UT	S C W M	label_geography_ut.csv
VA	S C W M	label_geography_va.csv
VT	S C W M	label_geography_vt.csv
WA	S C W M	label_geography_wa.csv
WI	S C W M	label_geography_wi.csv
WV	S C W M	label_geography_wv.csv
WY	S C W M	label_geography_wy.csv

5.19. Aggregation Level

5.19.1. J2J

(label_agg_level.csv)

Measures within the J2J and QWI data products are tabulated on many dimensions, including demographic characteristics, geography, industry, and other firm characteristics. For Origin-Destination (O-D) tables, characteristics of the origin and destination firm can be tabulated separately. Every tabulation level is assigned a unique aggregation index, represented by the agg_level variable. This index starts from 1, representing a national level grand total (all industries, workers, etc.), and progresses through different combinations of characteristics. There are gaps in the progression to leave space for aggregation levels that may be included in future data releases.

The following variables are included in the label_agg_level.csv file:

Variable	Description
agg_level	index representing level of aggregation reported on a given record
worker_char	demographic (worker) characteristics reported on record
firm_char	firm characteristics reported on record. These will be the characteristics of the destination firm in O-D tabulations
firm_orig_char	characteristics of origin firm reported on record (O-D tabulations only)
j2j	Flag: Aggregation level available on J2J counts tables
j2jr	Flag: Aggregation level available on J2J rates tables
j2jod	Flag: Aggregation level available on J2J O-D tables
qwi	Flag: Aggregation level available on QWI

The characteristics available on an aggregation level are repeated using a series of flags following the standard schema:

- cip_level degree field reporting level of table
- inst_level institution reporting level of table
- geo_level geographic level of table
- ind_level industry level of table
- by_ variables flags indicating other dimensions reported, including ownership, demographics, firm age and size.

A shortened representation of the file is provided below, the complete file is available in the link above.

agg_leve l	worker_char	firm_char	firm_orig_char	j2j	j2j r	j2jo d	qwi	geo_leve
1				1	1	1	0	N
2	Sex			1	1	1	0	N
3	Age			1	1	1	0	N
4	Sex * Age			1	1	1	0	N
5	Race			1	1	1	0	N
9	Ethnicity			1	1	1	0	N
13	Race * Ethnicity			1	1	1	0	N
•••								
129		Firm Size		1	1	1	0	N
257		NAICS Sector		1	1	1	0	N
258	Sex	NAICS Sector		1	1	1	0	N
•••								
1029	Race	State		1	1	1	0	S
1033	Ethnicity	State		1	1	1	0	S
1037	Race * Ethnicity	State		1	1	1	0	S
•••								
49153			Origin [NAICS Sector]	0	0	1	0	N
49154	Sex		Origin [NAICS Sector]	0	0	1	0	N
49155	Age		Origin [NAICS Sector]	0	0	1	0	N
•••								

5.19.2. PSEO

(label_agg_level_pseo.csv)

Measures within the PSEO data product can be tabulated by characteristics of the graduate (e.g., institution attended, instructional program, degree level, etc.) and by characteristics of employment (state, industry). All measures may not be available on all levels of aggregation - for example, earnings variables may not be available when tabulating by place and industry of work, though counts are. Every tabulation level is assigned a unique aggregation index, represented by the agg_level_pseo variable. This index starts from 1, representing a national level grand total (all institutions, graduates, industries, etc.), and progresses through different combinations of characteristics. There are gaps in the progression to leave space for aggregation levels that may be included in future data releases. Aggregation levels that are available in the PSEO release will be flagged.

The following variables are included in the label_agg_level_pseo.csv file:

Variable	Description agg_level_pseo
index representing level of aggregation reported on a given record grad_char	Characteristics of graduate and program firm_char
Characteristics of place of employment pseoe	Flag: aggregation level available on PSEO Earnings pseof

The characteristics available on an aggregation level are repeated using a series of flags following the standard schema:

- inst_levels institution level of table
- geo_level geographic level of table
- ind_level industry level of table
- by_variables flags indicating other dimensions reported, including ownership, demographics, firm age and size.

agg_ leve l_ps eo	grad_char	firm_char	_	inst_ leve l	_			_	pseo e	pseo f
38	Degree Level * Institution ID		A	I	N	A	0	1	1	1
40	Degree Level * CIP 2-digit * Institution ID		2	I	N	A	0	1	1	1
•••										
192	Degree Level * CIP 4-digit * Start Year for Graduation Cohort * Institution ID	NAICS Sector * Census Division	4	I	D	S	1	1	0	0

5.19.2.1. Restricted 4-Digit CIP Tabulations in Earnings Data (PSEOE)

Earnings estimates and counts are provided only at the 2-digit CIP level for Masters and Doctor Research programs (degree levels 07 and 17). Records are included for 4-digit programs observed,

but all measures are suppressed.

5.19.3. QWI

Aggregation level to be added to QWI in a future release

6. Status Flags

(label_flags.csv)

Most indicators in the LEHD data products have associated status flags. Each status flag in the tables above contains one of the following valid values. The values and their interpretation are listed in the tables below. Unless otherwise specified in this section, a status flag will take the values described in 7.1 Standard Status Flags.

6.1. Standard Status Flags



Important

Note: Currently, the J2J and PSEO tables only contain status flags '-1', '1', '5'. 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

6.2. IPEDS Count Status Flag

(label_flags_ipeds_count.csv)

Graduate counts associated with PSEO earnings tabulations are provided using public use data from the Integrated Postsecondary Education Data System (IPEDS). Counts are linked to graduation cohorts in the PSEO data and included in the PSEOE tables. In a small number of cases, misalignment in programs (CIPCODE) is observed between the IPEDS and PSEO counts. In these cases, the IPEDS counts are adjusted to be consistent with those on PSEO, and the count is flagged accordingly. For higher level aggregations (e.g., all cohorts, all CIPCODE), IPEDS totals may sum over

cohorts or programs for which graduate counts were not available. The counts are released but flagged to indicate missing data. IPEDS counts may be suppressed and flagged as not available in some cases when PSEO earnings data do not meet Census Bureau publication standards.

flag	label
1	IPEDS counts as reported
2	IPEDS counts edited for consistency with PSEO categories
3	IPEDS counts not available
4	IPEDS counts partially missing

7. Metadata

(variables_version.csv)

7.1. Version Metadata for QWI, J2J, and PSEO Files (version.txt)

Each data release is accompanied by one or more files with metadata on geographic and temporal coverage, in a compact notation. These files follow the following naming convention:

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

where each component is described in more detail in lehd_csv_naming.pdf.

The contents contain the following elements:

Compone nt	Source	Description
product	[type]	Type as described in naming convention
fas	[fas]	(optional - concatenated with product) used for QWI to distinguish separate tabulations from the legal [fas] values as described in naming convention
geo	stusps or METRO	Covered geography (uppercase state postal code including entire nation or the word METRO)
geonum	geography	Numeric geography code
start	yyyy:q (QWI, J2J) yyyy (PSEO)	Start year and quarter
end	yyyy:q (QWI, J2J) yyyy (PSEO)	End year and quarter
schema	Vx.y.z	Version of the schema
release	RyyyyQq	Release quarter (identifies when the data was created)
internal	various	Internal identifier used for provenance tracking

For instance, the metadata for the R2021Q2 QWI release of Delaware (example here) has the following content:

```
QWI_F DE 10 1998:3-2020:3 V4.8.0 R2021Q2 qwipu_de_20210729_1826
QWI_FA DE 10 1998:3-2020:2 V4.8.0 R2021Q2 qwipu_de_20210729_1826
QWI_FS DE 10 1998:3-2020:2 V4.8.0 R2021Q2 qwipu_de_20210729_1826
```

Similarly, the metadata for the R2021Q2 J2J release of Delaware (example here) has the following content:

```
J2J DE 10 2000:2-2020:2 V4.7.0 R2021Q2 j2jpu_de_20210624_2130
```

Some J2J metadata may contain multiple lines, as necessary.

The PSEO metadata will contain separate lines for the PSEOE and PSEOF tables. The year range for PSEO tables is based on the Grad Cohort, the start year of the graduation cohort. An example for R2019Q1 PSEO release for Colorado institutions (example here) has the following content:

```
PSEOE CO 08 2001-2015 V4.5.0 2019Q1 pseopu_co_20190617_0839
PSEOF CO 08 2001-2015 V4.5.0 2019Q1 pseopu_co_20190617_0839
```

7.2. Additional Metadata for J2JOD Files (avail.csv)

(variables_avail.csv)

Because the origin-destination (J2JOD) data link two regions, we provide an auxiliary file with the time range that cells containing data for each geographic pairing may appear in a data release.

variable	type	label
geo_level	Char(1)	Geographic level of destination region
geography	Char(8)	Geography code of destination region
geo_level_orig	Char(1)	Geographic level of origin region
geography_orig	Char(8)	Geography code of origin region
start_year	Num	First year regional pair may be observed
start_quarter	Num	First quarter regional pair may be observed
end_year	Num	Last year regional pair may be observed
end_quarter	Num	Last quarter regional pair may be observed

The reference region will always be either the origin or the destination. National tabulations contain records where both origin and destination are geo_level=N; state tabulations contain records where geo_level in (N,S); metro tabulations contain records where geo_level in (N,S,B). Data may be suppressed for certain combinations of regions and quarters because the estimates do not meet Census Bureau publication standards.

7.3. Metadata on Indicator Availability

(variables_lags.csv)

Each Indicator potentially requires leads and/or lags of data to be computed, and thus may not be available for certain time periods. Only two QWI will be available for all quarters of the time span described by start and end in the version.txt files: EmpTotal and Payroll. The date range for QWI, QWIR, J2J, and J2JR can be found in version.txt; the date range for J2JOD can be found in avail.csv.

For each indicator, the following files contain the quarters of data required to be available relative to the overall date range described in the metadata for the release:

- lags_qwi.csv
- lags_j2j.csv

The files are structured as follows:

variable	type	label
Indicator Variable	Num	Name of the Indicator
Quarters_Require d_Prior	Num	Number of quarters of data required to compute indicator relative to start quarter
Quarters_Require d_Subsequent	Num	Number of quarters of data required to compute indicator relative to end quarter

7.4. Additional Metadata for PSEO Files

Several additional files within each state release are included to provide information on the institutions within the scope of PSEO. The ALL directory consolidates the individual state files.

7.4.1. PSEO Data Partners and Coverage (pseo_[ST]_partners.txt)

This file contains information on PSEO coverage of graduates, as well as the partner organization(s) providing data. This is presented on several lines of a text file, as follows:

- State numeric FIPS code and state name
- Share of statewide graduates covered by PSEO
- Name(s) of data provider(s) (multiple lines, as required)

The share is derived from Integrated Postsecondary Education Data System (IPEDS) data, using program graduates from 2015 for degree levels within the scope of PSEO. It calculates the number of graduates from institutions that are available to PSEO as a fraction of graduates from all institutions within IPEDS for the reference state.

A sample file follows:

08 Colorado 72% of statewide graduates covered (2015 estimate) Colorado Department of Higher Education

7.4.2. Institutions Available Within PSEO (pseo_[ST]_institutions.csv)

(variables_pseo_institutions.csv)

This file provides the list of institutions that are included in the PSEO release. This file is an extract from label_institution.csv.

The files are structured as follows:

variable	type	label
institution	Char(8)	Identifier for Institution (OPEID)
label	Char(70)	Name of Institution
institution_state	Char(2)	Institution State (Postal Code)
statefips	Char(2)	Institution State (Numeric FIPS Code)