LEHD Public Use Data Schema V4.2b-draft
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(Printable version)



Important

This specification is draft. Feedback is welcome. Please write us at ces.qwi.feedback@census.gov.

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 http://lehd.ces.census.gov/data/ and through the LED Extraction Tool at http://ledextract.ces.ce

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 relative to the original v4.0 version are listed at the end.

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 Supersedes

This version supersedes V4.1.0, for files released as of R2017Q1.

5 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.

5.1 Generic structure

Column name	
[Identifier1]	
[Identifier2]	
[Identifier3]	
[]	
[Indicator 1]	
[Indicator 2]	

Column name
[Indicator 3]
[]
[Status Flag 1]
[Status Flag 2]
[Status Flag 3]
[]

Note: A full list of indicators for each type of file are shown below in the Indicators section. While all indicators are included in the CSV files, only the requested indicators will be included in data outputs from the LED Extraction Tool.

5.2 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.

5.2.1 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	NQWI	J2J	J2JR	J2JOD	LODES
lehd_identifiers_qwi	1	1				
lehd_identifiers_j2j			1	1		
lehd_identifiers_j2jod					1	

5.2.2 Identifiers for j2j

(lehd_identifiers_j2j.csv)

Variable	Type	label
periodicity	Char(1)	Periodicity of report
seasonadj	Char(1)	Seasonal Adjustment Indicator
geo_level	Char(1)	Group: Geographic level of aggregation
geography	Char(8)	Group: Geography code
ind_level	Char(1)	Group: Industry level of aggregation
industry	Char(5)	Group: Industry code
ownercode	Char(3)	Group: Ownership group code
sex	Char(1)	Group: Gender code
agegrp	Char(3)	Group: Age group code (WIA)
race	Char(2)	Group: race
ethnicity	Char(2)	Group: ethnicity
education	Char(2)	Group: education
firmage	Char(1)	Group: Firm Age group
firmsize	Char(1)	Group: Firm Size group
year	Num	Time: Year
quarter	Num	Time: Quarter
agg_level	Num	Aggregation Level Indicator

5.2.3 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		

5.2.4 Identifiers for qwi

(lehd_identifiers_qwi.csv)

Variable	Type	label
periodicity	Char(1)	Periodicity of report
seasonadj	Char(1)	Seasonal Adjustment Indicator
geo_level	Char(1)	Group: Geographic level of aggregation
geography	Char(8)	Group: Geography code
ind_level	Char(1)	Group: Industry level of aggregation
industry	Char(5)	Group: Industry code
ownercode	Char(3)	Group: Ownership group code
sex	Char(1)	Group: Gender code
agegrp	Char(3)	Group: Age group code (WIA)
race	Char(2)	Group: race
ethnicity	Char(2)	Group: ethnicity
education	Char(2)	Group: education
firmage	Char(1)	Group: Firm Age group
firmsize	Char(1)	Group: Firm Size group
year	Num	Time: Year
quarter	Num	Time: Quarter

5.3 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 taxonomoy (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.csv for a draft version.
- The 'Base' indicates the denominator used to compute the statistic, and may be 1.

5.3.1 National QWI and state-level QWI (QWIPU)

(variables_qwi.csv)

Indicator	Alternate		Indicator Name	Description	Units	Concept	Base
Vari-	Name	Flag					
able							
Emp	В	sEmp	Beginning-of-	Estimate of the total	Count	Employme	ent I
			Quarter	number of jobs on			
			Employment	the first day of the			
				reference quarter			
EmpEnd	Е	sEmpEnd	End-of-Quarter	Estimate of the	Count	Employme	ent 1
			Employment	number of jobs on			
				the last day of the			
				quarter			
EmpS	F	sEmpS	Full-Quarter	Estimate of stable	Count	Employme	ent 1
			Employment (Stable)	jobs - the number of			
				jobs that are held on			
				both the first and last			
				day of the quarter			
				with the same			
				employer			
EmpSpv	Fpv	sEmpSpv	Full-Quarter	Estimate of stable	Count	Employme	ent 1
			Employment in the	jobs in the quarter			
			Previous Quarter	before the reference			
				quarter			
EmpTotal	M	sEmpTota	Employment -	Estimated count of	Count	Employme	ent 1
			Reference Quarter	people employed in a			
				firm at any time			
				during the quarter			
HirA	A	sHirA	Hires (All	Estimated number of	Count	Hire	1
			Accessions)	workers who started			
				a new job in the			
				specified quarter			

Indicator Vari-	Alternate Name	Status Flag	Indicator Name	Description	Units	Concept	Base
able							
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	Separation	. 1
HirAEnd	CA	sHirAEnd	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
HirAEndR			REnd-of-Quarter Hiring Rate	Hires as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2
SepBeg	CS	sSepBeg	Beginning-of- Quarter Separations	Estimated number of workers whose job in the previous quarter continued and ended in the given quarter	Count	Separation	. 1
SepBegR	CSR	sSepBegR	Beginning-of- Quarter Separation Rate	Separations as a percent of average employment	Rate	Separation	(Emp + Em- pEnd)/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
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	Separation	. 1

Indicator	Alternate	Status	Indicator Name	Description	Units	Concept	Base
Vari-	Name	Flag					
able SepSnx	FSnx	sSepSnx	Separations in the	Estimated number of	Count	Separation	1
эсрых	1 SIIX	зосропх	Next Quarter (Flows	workers in the next	Count	Separation	. 1
			out of Full-Quarter	quarter who had a			
			Employment)	job for at least a full			
				quarter and then the			
				job ended			
TurnOvrS	FT	sTurnOvr.	S Turnover (Stable)	The rate at which	Rate	Turnover	2*EmpS
				stable jobs begin and			•
				end			
FrmJbGn	JC	sFrmJbGn	Firm Job Gains (Job	Estimated number of	Count	Hire	1
			Creation)	jobs gained at firms			
				throughout the			
				quarter			
FrmJbLs	JD	sFrmJbLs	Firm Job Loss (Job	Estimated number of	Count	Separation	1
			Destruction)	jobs lost at firms			
				throughout the			
				quarter			
FrmJbC	JF	sFrmJbC	Firm Job Change	Difference between	Count	Employme	ent 1
			(Net Change)	firm job gain and			
II: A II: 4I	lant EI	allin A Em d	DD-l-1	firm job loss Hires into	Carret	TT:	1
HirAEndF	kepi Ei	shirAEna	RRppplacement Hires		Count	Hire	1
				continuous quarter			
				employment in excess of job			
				creation			
HirAEndF	PenlFIR	sHirAFnd	RRphplacement Hiring	Replacement hires as	Rate	Hire	(Emp +
TIII7 (LIIGI	CPILIT	311117 ILIIG	Rate	a percent of the	Rate	Time	Em-
			Ruic	average of			pEnd)/2
				beginning- and			pena,, 2
				end-of-quarter			
				employment			
FrmJbGnS	S FJC	sFrmJbGn	SFirm Job Gains	Estimated number of	Count	Hire	1
			(Stable)	full-quarter jobs			
				gained at firms			
FrmJbLsS	FJD	sFrmJbLs	S Firm Job Loss	Estimated number of	Count	Separation	1
			(Stable)	full-quarter jobs lost			
				at firms			
FrmJbCS	FJF	sFrmJbCS	•	Net growth in jobs	Count	Employme	ent 1
			(Stable; Net Change)	that last a full quarter			
EarnS	ZW3	sEarnS	Average Monthly	Average monthly	Dollars	Earnings	EmpS
			Earnings	earnings of			
			(Full-Quarter	employees with			
D D	773374	-D D	Employment)	stable jobs	D: 11	F	P
EarnBeg	ZW1	sEarnBeg	Average Monthly	Average monthly	Dollars	Earnings	Emp
			Earnings (Basinning of	earnings of			
			(Beginning-of-	employees who worked on the first			
			Quarter Employment)	day of the reference			
			Employment)	quarter			
EarnHirA	S ZWFA	sEarnHir A	SAverage Monthly	Average monthly	Dollars	Earnings	HirAS
Lamma	LWIA	SLaillill F	Earnings (All Hires	earnings for workers	Donais	Lamings	шло
			into Full-Quarter	who started a job			
			Employment)	that turned into a job			
			2p10 ; 111011t)	lasting a full quarter			
	I			1 and quarter	I	1 1	

Indicator	Alternate	Status	Indicator Name	Description	Units	Concept	Base
Vari-	Name	Flag					
able							
EarnHirN	S ZWFH	sEarnHirN	SAverage Monthly	Average monthly	Dollars	Earnings	HirNS
			Earnings (New Hires	earnings of newly			
			into Full-Quarter	stable employees			
			Employment)				
EarnSepS	ZWFS	sEarnSep\$	S Average Monthly	Average monthly	Dollars	Earnings	SepSnx
			Earnings (Flows out	earnings of			
			of Full-Quarter	separations from			
			Employment)	full-quarter status at			
				an establishment			
Payroll	W1	sPayroll	Total Quarterly	Total quarterly	Dollars	Earnings	1
			Payroll	payroll for all jobs			

5.3.2 National QWI and state-level QWI rates (QWIPUR)

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

(variables_qwir.csv)

Indicator Vari- able	Alternate name	Status Flag	Indicator Name	Description	Units	Concept	Base
HirAR	AR	sHirAR	Hiring Rate (All Accessions)	All accessions as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2
HirNR	HR	sHirNR	New Hiring Rate	New hires as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2
HirRR	RR	sHirRR	Recall Rate	Recall hires as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2
SepR	SR	sSepR	Separation Rate (All Separations)	All separations as a percent of average employment	Rate	Separation	(Emp + Em- pEnd)/2
HirAEndR	CAR	sHirAEnd	REnd-of-Quarter Hiring Rate	Hires as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2
SepBegR	CSR	sSepBegR	Beginning-of- Quarter Separation Rate	Separations as a percent of average employment	Rate	Separation	Em- pEnd)/2
HirAsR	FAR	sHirAsR	Hiring Rate (Flows into Full-Quarter Employment)	Flows into stable employment as a percent of average stable employment	Rate	Hire	(EmpSpv + EmpS)/2
HirNsR	FHR	sHirNsR	New Hiring Rate (New Hires to Full-Quarter Status)	New hires into stable employment as a percent of average stable employment	Rate	Hire	(EmpSpv + EmpS)/2
SepSR	FSR	sSepSR	Separation Rate (Flows out of Full-Quarter Employment)	Flows out of stable employment as a percent of average stable employment	Rate	Separation	(EmpSpv + EmpS)/2
SepSnxR	FSnxR	sSepSnxR	Separation Rate in the Next Quarter (Flow out of Full-Quarter Employment)	Flow rate out of stable employment in the next quarter	Rate	Separation	(EmpSpv + EmpS)/2
TurnOvrS	R FTR	sTurnOvr\$	Rurnover Rate (Stable)	The rate at which stable jobs begin and end	Rate	Turnover	2*EmpS
FrmJbGnF	R JCR	sFrmJbGn	RFirm Job Gain Rate (Job Creation Rate)	Estimated number of jobs gained at firms throughout the quarter as a percent of average employment	Rate	Hire	(Emp + Em- pEnd)/2

Indicator			Indicator Name	Description	Units	Concept	Base
Vari-	name	Flag					
able							
FrmJbLsR	JDR	sFrmJbLsl	RFirm Job Loss Rate	Estimated number of	Rate	Separation	
			(Job Destruction	jobs lost at firms			Em-
			Rate)	throughout the			pEnd)/2
				quarter as a percent			
				of average			
				employment			
FrmJbCR	JFR	sFrmJbCR	Firm Job Change	Difference between	Rate	Flow	(Emp +
			Rate (Net Change	firm job gain and			Em-
			Rate)	firm job loss as a			pEnd)/2
				percent of average			
				employment			
HirAEndR	Repl R IR	sHirAEnd	RRphRacement Hiring	Replacement hires as	Rate	Hire	(Emp +
			Rate	a percent of average			Em-
				employment			pEnd)/2
FrmJbGnS	SR FJCR	sFrmJbGn	SRirm Job Gain Rate	Estimated number of	Rate	Hire	(EmpSpv
			(Stable)	full-quarter jobs			+
				gained at firms as a			EmpS)/2
				percent of average			
				stable employment			
FrmJbLsS	R FJDR	sFrmJbLs	SIFirm Job Loss Rate	Estimated number of	Rate	Separation	(EmpSpv
			(Stable)	full-quarter jobs lost			+
				at firms as a percent			EmpS)/2
				of average stable			
				employment			
FrmJbCSI	R FJFR	sFrmJbCS	RFirm Job Change	Net growth in jobs	Rate	Flow	(EmpSpv
			Rate (Stable; Net	that last a full quarter			+
			Change Rate)	as a percent of			EmpS)/2
				average stable			
				employment			

5.3.3 Job-to-job flow counts (J2J)

(variables_j2j.csv)

Indicator Vari- able	Alternate Name	Status Flag	Indicator Name	Description	Units	Concept	Base
MHire	all_doma2	sMHire	Hires	Hires into a worker's main job	Count	Hire	1
MSep	all_doms2	sMSep	Separations	Separations from a worker's main job	Count	Separation	1
MJobStart	first_dome	sMJobStar	t 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
MJobEnd	last_domb	sMJobEnd	Main Job Ends	End of main jobs due to separations and instances when another job becomes the main source of earnings	Count	Separation	1
EEHire	ee_doma2	sEEHire	Job-to-Job Hires (Continuous Employment)	Hires following a separation with no observed nonemployment spell	Count	Hire	1
EESep	ee_doms2	sEESep	Job-to-Job Separations (Continuous Employment)	Separations followed by a hire with no observed nonemployment spell	Count	Separation	1
AQHire	aq_doma2	sAQHire	Job-to-Job Hires (Brief Nonemployment)	Hires following a separation with a short nonemployment spell	Count	Hire	1
AQSep	aq_doms2	sAQSep	Job-to-Job Separations (Brief Nonemployment)	Separations followed by a hire with a short nonemployment spell	Count	Separation	1
J2JHire	j2j_doma2	sJ2JHire	Job-to-Job Hires	Hires following a separation (short or no observed nonemployment spell)	Count	Hire	1
J2JSep	j2j_doms2	sJ2JSep	Job-to-Job Separations	Separations followed by a hire (short or no observed nonemployment spell)	Count	Separation	1
NEHire	ne_doma2	sNEHire	Hires from Nonemployment	Hires following any spell of nonemployment	Count	Hire	1
ENSep	en_doms2	sENSep	Separations to Nonemployment	Separations into any spell of nonemployment	Count	Separation	1
NEPersist	ne2_doma	2 sNEPersist	Hires from Persistent Nonemployment	Hires following a spell of persistent nonemployment	Count	Hire	1
ENPersist	en2_doms	2 sENPersist	Separations to Persistent Nonemployment	Separations into a spell of persistent nonemployment	Count	Separation	1

Indicator	Alternate	Status	Indicator Name	Description	Units	Concept	Base
Vari-	Name	Flag					
able	2 1	-ANEE 110	II' C	III'aaa Callaa 'aaaa	C	TT'	1
NEFullQ	nezp_dom	a2NEFullQ	Hires from Full-Quarter	Hires following a spell of full-quarter	Count	Hire	1
			Nonemployment	nonemployment (does			
			rvonempioyment	not include			
				intermittently			
				employed)			
ENFullQ	en2p_dom	s2ENFullQ	Separations to	Separations into a	Count	Separation	1
	•		Full-Quarter	spell of full-quarter			
			Nonemployment	nonemployment (does			
				not include			
				intermittently			
N. D	1 D) (' D		employed)	<u> </u>	P. 1	. 1
MainB	domB	sMainB	Employment	Main jobs held on the	Count	Employme	ent I
			(Beginning of Quarter)	first day of the quarter			
MainE	domE	sMainE	Employment (End of	Main jobs held on the	Count	Employme	nt 1
Want	donie	SIVIAIIIL	Quarter)	last day of the quarter	Count	Limployine	AII I
EESepS	fee doms2	sEESepS	Stable Job-to-Job	Separations from	Count	Separation	1
	_	1	Separations	stable employment		1	
			(Continuous	followed by a hire to			
			Employment)	stable employment			
				with no observed			
EETI. C	C 1 (PERI: C	G. 11 T. 1 . T. 1	nonemployment spell	<u> </u>	***	-
EEHireS	tee_doma2	2 sEEHireS	Stable Job-to-Job	Hires to stable	Count	Hire	1
			Hires (Continuous Employment)	employment following a separation			
			Employment)	from stable			
				employment with no			
				observed			
				nonemployment spell			
AQSepS	faq_doms2	2 sAQSepS	Stable Job-to-Job	Separations from	Count	Separation	1
			Separations (Brief	stable employment			
			Nonemployment)	followed by a hire to			
				stable employment			
				with a short			
AQHireS	faa doma'	2 sAQHireS	Stable Job-to-Job	nonemployment spell Hires to stable	Count	Hire	1
AQIIICS	raq_uoma	company	Hires (Brief	employment	Count	11110	1
			Nonemployment)	following a separation			
			1 2 7	from stable			
				employment with a			
				short nonemployment			
175		2.17==	00.11.17	spell			
NEPersist	s fne2_dom	a2sNEPersist	SStable Hires from	Hires to stable	Count	Hire	1
			Persistent Nonemployment	employment			
			Nonemployment	following a spell of persistent			
				nonemployment			
ENPersist	S fen2 dom:	s2sENPersist	SStable Separations to	Separations from	Count	Separation	1
			Persistent	stable employment		1	
			Nonemployment	into a spell of			
				persistent			
				nonemployment			

Indicator Vari- able	Alternate Name	Status Flag	Indicator Name	Description	Units	Concept	Base
JobStayS	f4dombe	sJobStayS	·	Stable main jobs that did not change during the reference quarter	Count	Employme	ent 1
MainBS	fdomb	sMainBS	Stable Employment (Beginning of Quarter)	Stable main jobs held on the first day of the quarter	Count	Employme	ent 1
MainES	fdome	sMainES	Stable Employment (End of Quarter)	Stable main jobs held on the last day of the quarter	Count	Employme	ent 1
NEHireSE	af n<u>e</u>Des toma	a2 <u>s</u> NE ∏d in⊕Sl	Eakne Dest Earnings following Stable Hires from Persistent Nonemployment	Average quarterly earnings following hires to stable employment from a spell of persistent nonemployment	Dollars	Earnings	NEPersist
ENSepSE	arf <u>e</u> i Q rigom:	52 :[;Можр 6]	aAveOrize Earnings prior to Stable Separations to Persistent Nonemployment	Average quarterly earnings prior to separations from stable employment into a spell of persistent nonemployment	Dollars	Earnings	ENPersist
JobStaySE	a f4<u>d</u>0ri be_	f q&ahS tayS	Eave@gigEarnings prior to Stable Job Stayer	Average quarterly earnings in the previous quarter when workers stayed in a stable job	Dollars	Earnings	JobStayS
JobStaySE	af4 <u>d</u> Dwite_i	kf spleabri tayS	Earnings following Stable Job Stayer	Average quarterly earnings in the quarter when workers stayed in a stable job	Dollars	Earnings	JobStayS

5.3.4 Job-to-job flow rates (J2JR)

(variables_j2jr.csv)

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

Indicator Vari- able	Alternate Name	Status Flag	Indicator Name	Description	Units	Concept	Base	
MHireR	all_doma2	_ rsMe HireR	Hires	Rate of hires into a worker's main job	Rate	Hire	((Mai	nB+MainE
MSepR	all_doms2	_rsiMeSepR	Separations	Rate of separations from a worker's main job	Rate	Separation	((Mai	nB+MainE
MJobStart	Rfirst_dome	_s:NEJobStar	t R 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		nB+MainE
MJobEndi	R last_domb	_rs ite JobEnd	RMain Job Ends	Rate of end of main jobs due to separations and instances when another job becomes the main source of earnings	Rate	Separation	((Mai	nB+MainE
EEHireR	ee_doma2	ns/fixEHireR	Job-to-Job Hires (Continuous Employment)	Rate of hires following a separation with no observed nonemployment spell	Rate	Hire	((Mai	nB+MainE
EESepR	ee_doms2	rsalfæESepR	Job-to-Job Separations (Continuous Employment)	Rate of separations followed by a hire with no observed nonemployment spell	Rate	Separation	((Mai	nB+MainE
AQHireR	aq_doma2	_rsa AsQ HireR		Rate of hires following a separation with a short nonemployment spell	Rate	Hire	((Mai	nB+MainE
AQSepR	aq_doms2	_isiAeQSepR	Job-to-Job Separations (Brief Nonemployment)	Rate of separations followed by a hire with a short nonemployment spell	Rate	Separation	((Mai	nB+MainE
J2JHireR	j2j_doma2	_sateJHireR	Job-to-Job Hires	Rate of hires following a separation (short or no observed nonemployment spell)	Rate	Hire	((Mai	nB+MainE
J2JSepR	j2j_doms2	_ rdt2 JSepR	Job-to-Job Separations	Rate of separations followed by a hire (short or no observed nonemployment spell)	Rate	Separation	((Mai	nB+MainE
NEHireR	ne_doma2	_rsiNEHireR	Hires from Nonemployment	Rate of hires following any spell of nonemployment	Rate	Hire	((Mai	nB+MainE
ENSepR	en_doms2	nsh SepR	Separations to Nonemployment	Rate of separations into any spell of nonemployment	Rate	Separation	((Mai	nB+MainE

Indicator	Alternate	Status	Indicator Name	Description	Units	Concept	Base	
Vari-	Name	Flag						
able								
NEPersistI	R ne2_doma	2 <u>s</u> NæPersis	RHires from Persistent	Rate of hires	Rate	Hire	((Mai	nB+MainE)
			Nonemployment	following a spell of				
				persistent				
				nonemployment				
ENPersistl	Ren2_doms	2 <u>s</u> īfa N ePersist	tRSeparations to	Rate of separations	Rate	Separation	((Mai	nB+MainE)
			Persistent	into a spell of				
			Nonemployment	persistent				
				nonemployment				
NEFullQR	ne2p_dom	a23 <u>N</u> EdeullQl	R Hires from	Rate of hires	Rate	Hire	((Mai	nB+MainE)
			Full-Quarter	following a spell of				
			Nonemployment	full-quarter				
				nonemployment (does				
				not include				
				intermittently				
				employed)				
ENFullQR	en2p_dom	s2 <u>F</u> MEullQl	R Separations to	Rate of separations	Rate	Separation	((Mai	nB+MainE)
			Full-Quarter	into a spell of				
			Nonemployment	full-quarter				
				nonemployment (does				
				not include				
				intermittently				
				employed)				

5.3.5 Job-to-job flow Origin-Destination (J2JOD)

(variables_j2jod.csv)

Indicator Vari- able	Alternate Name	Status Flag	Indicator Name	Description	Units	Concept	Base
EE	ee_doma2		Job-to-Job Flows (Continuous Employment)	Rate of hires following a separation with no observed nonemployment spell	Count	Hire	1
AQHire	aq_doma2	sAQHire	Job-to-Job Flows (Brief Nonemployment)	Rate of hires following a separation with a short nonemployment spell	Count	Hire	1
EES	fee_doma2	2 sEES	Stable Job-to-Job Flows (Continuous Employment)	Hires to stable employment following a separation from stable employment with no observed nonemployment spell	Count	Hire	1
AQHireS	faq_doma2	2 sAQHireS	Stable Job-to-Job Flows (Brief Nonemployment)	Hires to stable employment following a separation from stable employment with a short nonemployment spell	Count	Hire	1
EESEarn_	Ofig_doma2	2_j EJESH arn_	Origrage Earnings prior to Job-to-Job Flows (Continuous Employment)	Average quarterly earnings following job flows with no observed nonemployment spell	Dollars	Earnings	EES
EESEarn_	Dfest_doma2	_ stfqsifa rn_	Deserrage Earnings following Job-to-Job Flows (Continuous Employment)	Average quarterly earnings prior to job flows with no observed nonemployment spell	Dollars	Earnings	EES
AQHireSE	a faq<u>O</u>liog na2	2_sj A@H ireSi	Earnings prior to Job-to-Job Flows (Brief Nonemployment)	Average quarterly earnings following job flows with a short nonemployment spell	Dollars	Earnings	AQHireS
AQHireSE	a fn <u>qD</u> testna2	2_skAiQelalineS	Earnings following Job-to-Job Flows (Brief Nonemployment)	Average quarterly earnings prior to job flows with a short nonemployment spell	Dollars	Earnings	AQHireS

5.4 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.

5.4.1 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]
[]
[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]

Column name
[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 Indicators 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.

5.4.2 National QWI and state-level QWI

(variables_qwiv.csv)

Variability	Alternate	Variable name	Units	Base
measure	name			
st_Emp	st_B	Standard error of	Count	1
		Beginning-of-Quarter		
		Employment		
st_EmpEnd	st_E	Standard error of	Count	1
		End-of-Quarter Employment		
st_EmpS	st_F	Standard error of Full-Quarter	Count	1
		Employment (Stable)		
vt_Emp	vt_B	Total variation of	Count	1
		Beginning-of-Quarter		
		Employment		
vt_EmpEnd	vt_E	Total variation of	Count	1
		End-of-Quarter Employment		
vt_EmpS	vt_F	Total variation of Full-Quarter	Count	1
		Employment (Stable)		
•••				
vb_Emp	vb_B	Between-implicate variability	Count	1
		for Beginning-of-Quarter		
		Employment		
vb_EmpEnd	vb_E	Between-implicate variability	Count	1
		for End-of-Quarter Employment		
vb_EmpS	vb_F	Between-implicate variability	Count	1
		for Full-Quarter Employment		
		(Stable)		
•••				
•••				
df_Emp	df_B	Degrees of freedom for VT of	Count	1
		Beginning-of-Quarter		
		Employment		
df_EmpEnd	df_E	Degrees of freedom for VT of	Count	1
		End-of-Quarter Employment		
df_EmpS	df_F	Degrees of freedom for VT of	Count	1
		Full-Quarter Employment		
		(Stable)		
• • •				
mr_Emp	mr_B	Missingness ratio for	Count	1
		Beginning-of-Quarter		
		Employment		
mr_EmpEnd	mr_E	Missingness ratio for	Count	1
		End-of-Quarter Employment		
mr_EmpS	mr_F	Missingness ratio for	Count	1
		Full-Quarter Employment		
		(Stable)		

5.4.3 National QWI and state-level QWI rates

(variables_qwirv.csv)

Variability	Alternate	Variable name	Units	Base
measure	name			
st_HirAR	st_AR	Standard error of Hiring Rate (All Accessions)	Rate	1
st_HirNR	st_HR	Standard error of New Hiring Rate	Rate	1
st_HirRR	st_RR	Standard error of Recall Rate	Rate	1
vt_HirAR	vt_AR	Total variation of Hiring Rate (All Accessions)	Rate	1
vt_HirNR	vt_HR	Total variation of New Hiring Rate	Rate	1
vt_HirRR	vt_RR	Total variation of Recall Rate	Rate	1
vb_HirAR	vb_AR	Between-implicate variability for Hiring Rate (All Accessions)	Rate	1
vb_HirNR	vb_HR	Between-implicate variability for New Hiring Rate	Rate	1
vb_HirRR	vb_RR	Between-implicate variability for Recall Rate	Rate	1
df_HirAR	df_AR	Degrees of freedom for VT of Hiring Rate (All Accessions)	Rate	1
df_HirNR	df_HR	Degrees of freedom for VT of New Hiring Rate	Rate	1
df_HirRR	df_RR	Degrees of freedom for VT of Recall Rate	Rate	1
mr_HirAR	mr_AR	Missingness ratio for Hiring Rate (All Accessions)	Rate	1
mr_HirNR	mr_HR	Missingness ratio for New Hiring Rate	Rate	1
mr_HirRR	mr_RR	Missingness ratio for Recall Rate	Rate	1

5.4.4	Job-to-job flow counts (J2J)
Soon.	
5.4.5	Job-to-job flow rates (J2JR)
Soon.	
5.4.6	Job-to-job flow Origin-Destination (J2JOD)
Soon.	

6 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.

6.1 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

6.2 concept

(label_concept.csv)

Concept	Definition	
Hire	Measure derived from the the first quarter that a job is	
	the main source of income (usually a hire)	
Separation	Measure derived from the last quarter that a job is the	
	main source of income (usually a separation)	
Employment	Measure counting the stock of all jobs at a point in	
	time	
Earnings	Measure of average earnings associated with a base	
	employment or job transition measure	

6.3 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)

6.4 ethnicity

(label_ethnicity.csv)

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

6.5 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

6.6 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

6.7 ownercode

(label_ownercode.csv)

ownercode	label
A00	All (1-5)
A01	Federal government
A05	All Private (5)

6.8 periodicity

(label_periodicity.csv)

periodicity	label
A	Annual data
Q	Quarterly data

6.9 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)

6.10 race

(label_race.csv)

race	label
A0	All Races
A1	White Alone
A2	Black or African American Alone
A3	American Indian or Alaska Native Alone
A4	Asian Alone
A5	Native Hawaiian or Other Pacific Islander Alone
A6	Some Other Race Alone (Not Used)
A7	Two or More Race Groups

6.11 seasonadj

(label_seasonadj.csv)

seasonadj	label
S	Seasonally adjusted
U	Not seasonally adjusted

6.12 sex

(label_sex.csv)

sex	label
0	All Sexes
1	Male
2	Female

6.13 stusps

(label_stusps.csv)

geography	stusps
01	AL
02	AK
04	AZ
05	AR
06	CA
08	CO
09	CT
10	DE
11	DC
12	FL
13	GA

geography	stusps
15	HI
16	ID
17	IL
18	IN
19	IA
20	KS
21	KY
22	LA
23	ME
24	MD
25	MA
26	MI
27	MN
28	MS
29	MO
30	MT
31	NE
32	NV
33	NH
34	NJ
35	NM
36	NY
37	NC
38	ND
39	OH
40	OK
41	OR
42	PA
44	RI
45	SC
46	SD
47	TN
48	TX
49	UT
50	VT
51	VA
53	WA
54	WV
55	WI
56	WY
72	PR
78	VI

6.14 Industry

6.14.1 Industry levels

(label_ind_level.csv)

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

6.14.2 Industry

(label_industry.csv)

Only a small subset of available values shown. The 2012 NAICS (North American Industry Classification System) is used for all years. QWI releases prior to R2015Q3 used the 2007 NAICS classification (see Schema v4.0.1). For a full listing of all valid 2012 NAICS codes, see http://www.census.gov/cgi-bin/sssd/naicsrch?chart=2012.

industry	label	
00	All NAICS Sectors	
000	All NAICS Subsectors	
0000	All NAICS Industry Groups	
11	Agriculture, Forestry, Fishing and Hunting	
111	Crop Production	
1111	Oilseed and Grain Farming	
1112	Vegetable and Melon Farming	
2382	Building Equipment Contractors	
2383	Building Finishing Contractors	
2389	Other Specialty Trade Contractors	
31-33	Manufacturing	
311	Food Manufacturing	
3111	Animal Food Manufacturing	
3112	Grain and Oilseed Milling	
3113	Sugar and Confectionery Product Manufacturing	

6.15 Geography

6.15.1 Geographic levels

Geography labels for data files are provided in separate files, by scope. Each file *label_geograpy_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 2015 vintage of Census TIGER/Line geography is used for all tabulations as of the R2015Q4 release.

Shapefiles are described in a separate document.

(label_geo_level.csv)

geo_l	ev løl bel	description	sourceurl		
В	Metropolitan	Identifies 5-digit CBSA code for	http://www.census.gov/-		
	(complete)	metropolitan areas provided by the	population/metro/		
		Census Bureau's Geography			
		Division			
С	Counties	Identifies 5-digit FIPS code	https://www.census.gov/geo/-		
			reference/codes/cou.html		
M	Metropolitan/N	Aikchenptofiietan7-digit code constructed	http://www.census.gov/-		
	(state part)	from the 2-digit state FIPS code	population/metro/		
		and the 5-digit CBSA code			
		provided by the Census Bureau's			
		Geography Division			
N	National (50	Custom code using 00 to denote			
	States + DC)	national scope			
S	States	Identifies 2-digit FIPS code (also	https://www.census.gov/geo/-		
		called "ANSI" codes)	reference/ansi_statetables.html		
W	Workforce	2-digit state FIPS code and the			
	Investment	6-digit WIA identifier provided by			
	Areas	LED State Partners			

6.15.2 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

geograp		geo_level
00	National (50 States +	N
	DC)	
01	Alabama	S
02	Alaska	S
04	Arizona	S
05	Arkansas	S
06	California	S
08	Colorado	S
45	South Carolina	S
46	South Dakota	S
47	Tennessee	S
48	Texas	S
49	Utah	S
50	Vermont	S
51	Virginia	S
53	Washington	S

6.15.3 Detailed state and substate level values

Note: cross-state CBSA, in records of type $geo_level = M$, are present on files of type $label_geography_XX.csv$. A particular cross-state CBSA will appear on multiple files.

Scope	Format file			
US	label_geography_us.csv			
METRO	label_geography_metro.csv			
States				
AK	label_geography_ak.csv			
AL	label_geography_al.csv			
AR	label_geography_ar.csv			
AZ	label_geography_az.csv			
CA	label_geography_ca.csv			
CO	label_geography_co.csv			
CT	label_geography_ct.csv			
DC	label geography dc.csv			
DE	label_geography_de.csv			
FL	label_geography_fl.csv			
GA	label_geography_ga.csv			
HI	label_geography_hi.csv			
IA	label_geography_ia.csv			
ID	label_geography_id.csv			
IL	label_geography_il.csv			
IN	label_geography_in.csv			
KS	label_geography_ks.csv			
KY	label_geography_ky.csv			
LA	label_geography_la.csv			
MA	label_geography_ma.csv			
MD	label_geography_md.csv			
ME	label_geography_me.csv			
MI	label_geography_mi.csv			
MN	label_geography_mn.csv			
MO	label_geography_mo.csv			
MS	label_geography_ms.csv			
MT	label_geography_mt.csv			
NC	label_geography_nc.csv			
ND	label_geography_nd.csv			
NE	label_geography_ne.csv			
NH	label_geography_nh.csv			
NJ	label_geography_nj.csv			
NM	label_geography_nm.csv			
NV	label_geography_nv.csv			
NY	label_geography_ny.csv			
OH	label_geography_oh.csv			
OK	label_geography_ok.csv			
OR	label_geography_or.csv			
PA	label_geography_pa.csv			
RI	label_geography_ri.csv			
SC	label_geography_sc.csv			
SD	label_geography_sd.csv			
TN	label_geography_tn.csv			
TX	label_geography_tx.csv			
UT	label_geography_ut.csv			
VA	label_geography_va.csv			
VT	label_geography_vt.csv			
WA	label_geography_wa.csv			

Scope	Format file
WI	label_geography_wi.csv
WV	label_geography_wv.csv
WY	label_geography_wy.csv

6.16 Aggregation level

(label_agg_level.csv)

Measures within the J2J and QWI data products are tabulated on many different 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.

agg_level is currently reported only for J2J data products.

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:

- 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	j2jr	j2jod	qwi	geo_level
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 *			1	1	1	0	N
	Ethnicity							
129		Firm Size		1	1	1	0	N
257		NAICS		1	1	1	0	N
		Sector						
258	Sex	NAICS		1	1	1	0	N
		Sector						

agg_leve	l worker_char	firm_char	firm_orig_char	· j2j	j2jr	j2jod	qwi	geo_level
1029	Race	State		1	1	1	0	S
1033	Ethnicity	State		1	1	1	0	S
1037	Race *	State		1	1	1	0	S
	Ethnicity							

7 Status flags

(label_flags.csv)

Each status flag in the tables above contains one of the following valid values. The values and their interpretation are listed in the table below.



Important

Note: Currently, the J2J 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	

8 Metadata

(variables_version.csv)

8.1 Metadata for QWI and J2J 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_[demo]_[fas].txt
version_[type].txt
```

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

The contents contains the following elements:

ComponentSource		Description	
product	[type]	Type as described in lehd_csv_naming.pdf	
demo_fas	[demo]_[fas]	(optional - concatenated with product) used	
		for QWI to distinguish separate tabulations	
		from the legal [demo]_[fas] combinations as	
		described in lehd_csv_naming.pdf	
geo	Section 6.13 or Metro	Covered [geography] (uppercase state postal	
		code or the word MSA)	
fips	[geography]	Numeric (FIPS) geography code	
start	уууу:q	Start year and quarter	
end	уууу:q	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 R2017Q1 release of Missouri QWI Sex by Age tabulations for No firm size or age detail (obtained from here) has the following content:

```
QWISA_F MO 29 1995:1-2016:2 V4.1.1 R2017Q1 qwipu_mo_20170301_1230
```

Similarly, the metadata for the R2017Q1 release of Missouri J2J tabulations (obtained from here) has the following content:

```
J2J MO 29 2000:2-2016:1 V4.2a-draft R2017Q1 j2jpu_mo_20170425_1760
```

Some J2J metadata may contain multiple lines, as necessary.

8.2 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_c	riGhar(1)	Geographic level of origin region
geography_	ofilar(8)	Geography code of origin region
start_year	Num	First year regional pair may be observed

variable	type	label
start_quarte	r 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.

9 Changes

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

9.1 This version (revisions)

• 2017-08-xx: Initial release

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

• See Github

9.3 Version 4.2a-draft from 4.1.1

• See Github

This revision: Tue Aug 22 11:51:43 EDT 2017