Longitudinal Employer - Household Dynamics

LEHD DATA DOCUMENTATION LEHD-OVERVIEW-S2004

LEHD Infrastructure files in the Census RDC - Overview Revision: 219

Date : August 20, 2008

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This document reports the results of research and analysis undertaken by the U.S. Census Bureau staff. This document is released to inform interested parties of ongoing research and to encourage discussion of work in progress. This research is a part of the U.S. Census Bureau's Longitudinal Employer-Household Dynamics Program (LEHD), which is partially supported by the National Science Foundation Grant SES-9978093 to Cornell University (Cornell Institute for Social and Economic Research), the National Institute on Aging Grant 5 R01 AG018854-02, and the Alfred P. Sloan Foundation. The views expressed herein are attributable only to the author(s) and do not represent the views of the U.S. Census Bureau, its program sponsors or data providers. The U.S. Census Bureau supports external researchers use of these data through the Research Data Centers (see www.ces.census.gov). For other questions regarding the data, please contact Jeremy S. Wu, Program Manager, U.S. Census Bureau, LEHD Program, Center for Economic Studies, Room 6H141, 4600 Silver Hill Rd., Suitland, MD 20233, USA. https://lehd.did.census.gov.

Page 2

LEHD-OVERVIEW-S2004

Revision: 219

Contents

1	Ove		1
	1.1	1	11
	1.2		13
	1.3		13
	1.4	Availability of data	14
	1.5	Processing files	20
	1.6	Disclosure limitation	20
2	Bus	siness Register Bridge (BRB)	21
	2.1		21
			21
			21
			21
		2.1.4 Processing description	21
			21
	2.2	Details	23
	2.3	Characterizing the Bridge Between LEHD Data and Census Business Data	23
		2.3.1 General Description	23
		2.3.2 File Structure and Contents	23
		2.3.3 How to Use The BRB	25
		2.3.4 Some warnings and caveats	27
	2.4		29
			29
			29
		,	30
		2.4.4 Business Register list: brb_us_brlist	30
			31
	2.5	· ·	32
			32
			57
			66
			75
	2.6	Notes	76
3	Em	ployer Characteristics File (ECF) 7	77
	3.1		77
			77
			77
			77
	3.2		78

				(CO.	N'	ГΕ	NTS
	3.3	Data s	set descriptions	. ,				79
		3.3.1	Naming scheme					79
		3.3.2	Data location	. ,				79
		3.3.3	Main SEINUNIT dataset: ecf_zz_seinunit					80
		3.3.4	Main SEIN dataset: ecf_zz_sein					
		3.3.5	Auxiliary SEINUNIT T26 dataset: ecf_zz_seinunit_t26					
		3.3.6	Auxiliary SEIN T26 dataset: ecf_zz_sein_t26					
		3.3.7	Details on variables					
	3.4		S codes on the ECF					
	0.1	3.4.1	A note on naming conventions					
		3.4.2	LDB versus LEHD NAICS backcoding					
		3.4.3	Variable List					
		3.4.4	Coding of MISS and SRC					
		3.4.4 $3.4.5$	NAICS algorithm precedence ordering					
		3.4.6	ESO and FNL variables					
		3.4.0 $3.4.7$	Employment Flag Variable Codes					
		3.4.8	- 1					
			Multi-Unit Code or MEEI					
		3.4.9	Auxiliary Code					
	0.5		Summary information on datasets					
	3.5		d programs					
		3.5.1	Combining regular ECF data with ECF T26 files					
		3.5.2	Selecting a random sample of establishments					
	3.6	Notes						106
4	E.m.	nloveno	ent History Files (EHF)					107
4	4.1		iew					
	4.2		files					
	4.2	4.2.1	Wage records: UI					
		4.2.1	Employer reports: ES-202					
	4.3							
	4.5		set descriptions					
		4.3.1	Naming scheme					
		4.3.2	Data location					
		4.3.3	UI-based Output Files					
		4.3.4	ES202-based Output Files					
		4.3.5	Summary information on datasets					
	4.4	Notes						128
5	Coo	-coded	l Address List (GAL)					131
0	5.1	Overvi						
	0.1	5.1.1	Definition of GAL					
		5.1.2	Update frequency					
		5.1.3	Acquisition process					
		5.1.4	Processing description					
	E 9		•					
	5.2	5.2.1	S					
			Important Variables					
		5.2.2	Other Variables					
		5.2.3	Accessing the GAL: the GAL Crosswalks					
	~ ^	5.2.4	Resources for geographic information					
	5.3		set descriptions					
		5.3.1	Naming scheme					
		5.3.2	Data location					
		5.3.3	Main dataset: GAL_ZZ_2003					140

CONTENTS

		J1 1 I D		
		5.3.4	Auxiliary dataset: GAL_ZZ_2003_T26	142
		5.3.5	Auxiliary dataset: GAL_ZZ_2003_T26flags	
		5.3.6	Auxiliary dataset: GAL_ZZ_2003_ES202ONLY	
		5.3.7	Auxiliary dataset: GAL_ZZ_2003_TCCB	
		5.3.8	ACS Place-of-work Crosswalk: GAL_ZZ_2003_POW_YYYY	
		5.3.9	AHS Crosswalk: GAL_ZZ_2003_AHS_YYYY	
			Business Register Crosswalk: GAL_ZZ_2003_BR_YYYY	
		5 2 11	ES202 Crosswalk: GAL_ZZ_2003_XWALK_YYYY	140
			MAF Crosswalk: GAL_ZZ_2003_MAF_2004	
	5.4		ams	
	5.4	5.4.1	Separating Title 26 information	
		5.4.1 $5.4.2$	Recombining GAL component files	
		-		
	5.5	Notes		153
6	Ind	ividual	Characteristics File (ICF)	55
	6.1		iew	155
		6.1.1	Age and sex imputation	155
		6.1.2	Place of residence imputation	
		6.1.3	Education imputation	
	6.2		set descriptions	
	0.2	6.2.1	Unique record identifier	
		6.2.2	Naming scheme	
		6.2.2	Data location	
		6.2.4	Main dataset: ICF_zz	
		6.2.4	Age and sex implicates: ICF_zz_implicates_age_sex	
		6.2.6		
		6.2.0	Residence implicates: ICF_zz_implicates_county	
		6.2.8	Title 26 information: ICF_zz_t26	
		6.2.9	Summary information on datasets	
	6.3		ıl programs	
		6.3.1	Recombining T26 data with the core ICF	
		6.3.2	Selecting a random subsample of persons	
	6.4	Notes		167
7	Qua	arterly	Workforce Indicators - SEINUNIT file (QWI)	69
	7.1		iew	69
	7.2		set descriptions	
		7.2.1	Coverage of QWI	
		7.2.2		170
		7.2.3		170 170
		7.2.4		170 170
		7.2.4	·	232
	7.3	Notes		233 233
	1.5	110005		-00
8	Uni		1 ()	35
	8.1			235
		8.1.1		236
		8.1.2	Imputing place of work	237
	8.2	Data s	set descriptions	240
		8.2.1	Naming scheme	240
		8.2.2	Data location	240
		8.2.3	Main dataset: u2w_zz	240

	CONTENTS
	8.2.4 Summary information on datasets
8.3	Notes
8.4	Acronyms used
8.5	Errata

 $\begin{array}{c} \textit{LEHD-OVERVIEW-S2004} \\ \textit{Revision}: 219 \end{array}$

List of Tables

1.1	LEHD components	.3
1.2	RDC usage permission, by state	.5
1.3	Data availability, by state and process	.6
2.47	File information for BRB	75
3.6	MISS Variable Codes)9
3.7	SRC Variable: ESO, FNL	9
3.8	SRC Variable: AUX, LDB, NAICS	9
3.9	File information, by state, by group, for ECF)3
4.7	File information, by state, for EHF	27
4.8	UI/EHF Summary of Information and Known Issues with Data Coverage and Quality 12	28
6.6	File information, by state, by group, for ICF	3
7.2	File information, by state, for QWI	32
8.2	File information, by state, for U2W	11

Page 8 LEHD-OVERVIEW-S2004

List of Figures

1.1	Data flow view of LEHD Infrastructure	 12
5.1	GAL Processing	 .34

Page 10 LEHD-OVERVIEW-S2004

Chapter 1.

Overview of LEHD Infrastructure

The Longitudinal Employer-Household Dynamics (LEHD) Infrastructure files available in the Research Data Center (RDC) is structured as individual components. A big-picture overview of it can be found at http://lehd.did.census.gov/led/library/techpapers/tp-2006-01.pdf. Figure 1.1 provides an overview of the flow of data elements through the LEHD data creation process.

Currently, the core outputs of the data creation process are the Quarterly Workforce Indicators (QWI), shown in Figure 1.1, and the OnTheMap (OTM) data. The LEHD Infrastructure files in the RDC environment do not contain any public-use data (both the aggregated QWI and the OTM data are available to the general public), nor does it contain any information related to the disclosure limitation measures used in the QWI (for more information on the disclosure limitation techniques, see Abowd et al. (2006) and Abowd et al. (2006) for a discussion).

1.1 UPDATES

This is the first release of the LEHD Infrastructure files. It contains data that covers the years up to and including 2004Q1. We refer to it as the 'S2004' snapshot of the LEHD Infrastructure files. The data was pulled from LEHD archives as a coherent ensemble over the course of 2005 and 2006.

Improvements are made to the files, fixing minor data inconsistencies or updating documentation. To identify the version of the files in the data archive, a file called version.txt is at the root of each data directory, e.g., u2w/version.txt. The file will contain the name of the data, the snapshot number, and the date stamp of the most recent file within the data. As of the writing of this document,

```
./brb/version.txt: BRB S2004 2005-06-23
./ecf/version.txt: ECF S2004 2007-05-17
./ehf/version.txt: EHF S2004 2006-03-29
./gal/version.txt: GAL S2004 2008-03-27
./icf/version.txt: ICF S2004 2007-06-01
./u2w/version.txt: U2W S2004 2008-03-27
./qwi/version.txt: QWI S2004 2007-03-30
./spf/version.txt: SPF S2004 2006-06-28
./es202/version.txt: ES202 S2004 2007-02-09
./ecft26/version.txt: ECFT26 S2004 2007-05-17
./galt26/version.txt: GALT26 S2004 2008-03-07
./icft26/version.txt: ICFT26 S2004 2007-06-03
```

Plans are to update the LEHD Infrastructure files every two-three years, as resources to build it become available. The next update is planned to occur starting in 2008Q1, containing all available states at that time in regular LEHD production, and covering years up to and including 2007Q1. Due to the post-processing required to make researcher-friendly files, and the quantity of data that needs to be moved into the RDC environment, we expect the 'S2007' version to become available in early 2009.

LEHD-OVERVIEW-S2004 Page 11

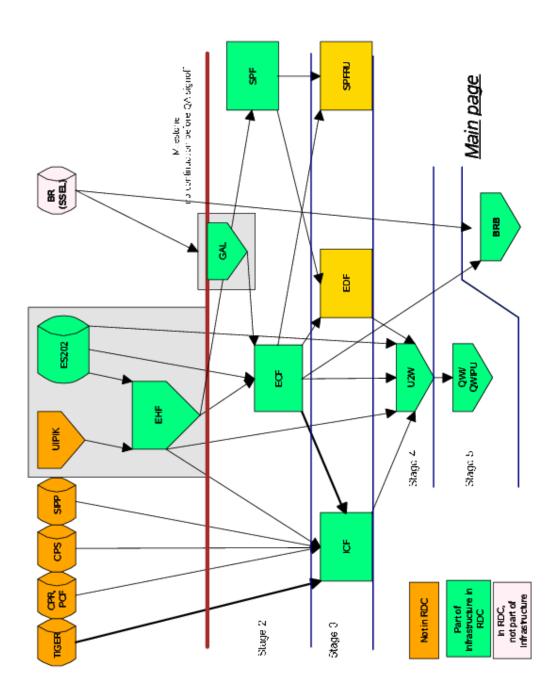


Figure 1.1: Data flow view of LEHD Infrastructure

Page 12 LEHD-OVERVIEW-S2004
Revision: 219

Table 1.1: LEHD components

Name and	CES abbr.	Name of	CES abbreviation
abbreviation	if different	FTI version	of FTI version
Business Register Bridge (BRB)		(all)	
Employer Characteristics File (ECF)		ECFT26	ect
Employment History Files (EHF)			
ES-202 (ES-202)	es2	ECFT26	ect
Individual Characteristics File (ICF)		ICFT26	ict
Geocoded Address List (GAL)		GALT26	gat
Quarterly Workforce Indicators (QWI)			
(establishment level)			
Successor-Predecessor File (SPF)			
Unit-to-Worker Impute (U2W)			

1.2 TREATMENT OF FEDERAL TAX INFORMATION

Some components have Title-26 protected variables, which are kept as separate components for tracking and monitoring purposes, but are not documented separately. Such T26 components need to be requested separately, and as of the writing of this documentation, will trigger additional proposal review. Table 1.1 shows the nine components and their Federal Tax Information (FTI) counterparts, if present, as they are available in the RDC.

1.3 IDENTIFIERS

In general, linkages between the different files are created using deterministic match-merge techniques. Person, firm, and establishment identifiers allow users to link all LEHD Infrastructure files. Throughout, all Social Security Numbers (SSNs) have been replaced by Protected Identity Keys (PIKs) - no SSNs are available anywhere in this data. In addition to within LEHD identifiers such as the PIK, the ICF also contains additional person identifiers linking to Census survey data: (Current Population Survey (CPS), and Survey of Income and Program Participation (SIPP)). Note that these are generally the Census-internal identifiers and may not have a direct correspondence to the identifiers on the public-use files.

Firm identifiers are called State employer identification numbers (SEINs). The identifiers are constructed internally by LEHD, and generally, but not always, reflect an entity reporting unemployment insurance (UI) taxes to state authorities. "Establishments" (more precisely: reporting units) are identified by SEIN reporting unit (SEINUNIT). Establishments and firms are structured as one would expect with establishments listed hierarchically within each firm. Therefore to uniquely identify an establishment both the SEIN and SEINUNIT must be used. The firm and establishment identifiers are state and firm-structure-specific within the LEHD Infrastructure files, there is no straighforward method of linking units of a firm with multiple tax reporting entities (SEINs). Although the vast majority of firms have only one SEIN, a firm, depending on its structure may have multiple SEINs operating both within and across state boundaries. Although the federal Employer Identification Number (EIN) is available and can be used to link SEINs within and across states, the EIN suffers from similar problems as the SEIN. The identifier is not necessarily unique within a firm, is designed for tax reporting, and the structure of EINs within a firm is arbitrary. The Census Bureau recognizes the limitations of administrative identifiers and has addressed this problem on the Business Register (BR). The BRB is used to link to the Business Register (BR) and other Census economic data. Note that the BRB is in general a many-to-many link file. The BRB does permit assigning all SEINs and SEINUNITs to a common alpha (the overall firm identifier in the BR). However, exact identifierbased establishment-to-establishment matches between BR and LEHD data are generally not possible for establishments part of multi-establishment firms.

For any further information, refer to the component-specific documentation.

AVAILABILITY OF DATA

Availability of LEHD Infrastructure files is conditional on (i) the data files having been processed in the LEHD QWI Production system, and subsequently integrated into the LEHD Infrastructure and (ii) permission for use in research having been granted by LEHD's state partner.

The standard Memorandum of Understanding (MOU) between the Census Bureau and its state partners precludes access to person and firm names and physical addresses as provided in the ES-202 data. As described below, there are geographic identifiers that are derived in the GAL that can be used for analysis and integrating data for appropriate and approved purposes.

As of August 20, 2008, 31 states have been processed for the complete set of LEHD data files and integrated. The GAL is available for all 50 states plus the District of Columbia, but certain crosswalks do not exist if ES-202 records were not available for that state. As of February 1, 2008, 30 states have granted permission to use the files in the RDC network. Table 1.2 lists permissions by state. LEHD continues to work on expanding the list of permissions. Check with the RDC administrators for the most up-to-date list.

In general, LEHD Infrastructure files are available from 2000 onwards. However, the availability of historical data prior to 2000 varies significantly across states. Table 1.3 tabulates the availability by component and state in the S2004 snapshot. This table should be cross-referenced with Table 1.2 when evaluating the feasibility of a project.

LEHD-OVERVIEW-S2004 Page 14

Table 1.2: RDC usage permission, by state

Alaska (AK): (pending) Mississippi (MS): (pending)

Montana (MT): yes Alabama (AL): (pending)

North Carolina (NC): yes Arkansas (AR): yes

North Dakota (ND): (pending) Arizona (AZ): (pending)

Nebraska (NE): (pending) California (CA): yes

New Hampshire (NH): (pending) Colorado (CO): yes

New Jersey (NJ): yes Connecticut (CT): (pending)

New Mexico (NM): yes District of Columbia (DC): (pending)

Nevada (NV): yes Delaware (DE): no

New York (NY): no Florida (FL): yes

Ohio (OH): (pending) Georgia (GA): yes

Oklahoma (OK): yes Hawaii (HI): yes

Oregon (OR): yes Iowa (IA): yes

Pennsylvania (PA): (pending) Idaho (ID): yes

Rhode Island (RI): yes Illinois (IL): yes

South Carolina (SC): yes

South Dakota (SD): (pending)

Kansas (KS): (pending) Tennessee (TN): yes

Kentucky (KY): (pending) Texas (TX): yes

Utah (UT): yes

Massachusetts (MA): (pending) Virginia (VA): yes

Maryland (MD): yes Vermont (VT): yes

Maine (ME): yes Washington (WA): yes

Michigan (MI): no Wisconsin (WI): yes

Minnesota (MN): (pending) West Virginia (WV): yes

Missouri (MO): (pending) Wyoming (WY): (pending)

Revision: 219

Indiana (IN): yes

Louisiana (LA): yes

Table 1.3: Data availability, by state and process

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		ect	ectt20	ent	esz0z	gal	galt20	1CI	1Cff20	qw_1	spt	μZw
Covered states		62	က	219	1,604	882	714	31	31	28	95	32
		(227.54)	(9.91)	(408.92)	(72.63)	(65.94)	(14.59)	(25.16)	(15.93)	(652.74)	(72.00)	(41.28)
Alaska	AK	٠	•	٠	٠	6	14	•	•	٠	٠	
						(0.12)	(0.04)					
Alabama	AL	2	٠	7	18	14	14	1	1	•	3	
		(1.65)		(2.52)	(0.68)	(1.02)	(0.24)	(0.37)	(0.24)		(0.60)	(0.45)
Arkansas	AR	2	•	7	11	13	14	П	\vdash	\vdash	3	
		(0.44)		(1.02)	(0.26)	(0.57)	(0.15)	(0.20)	(0.13)	(4.08)	(0.25)	(0.17)
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						(0.99)	(0.25)					
California	CA	2	က	7	57	24	14	1	1	1	3	
		(45.20)	(9.91)	(74.48)	(14.79)	(8.23)	(1.52)	(4.24)	(2.61)	(87.68)	(12.71)	(8.13)
Colorado	CO	2	•	7	09	25	14		$\overline{}$	П	အ	<u>C</u>
		(6.72)		(14.62)	(1.81)	(1.26)	(0.25)	(0.84)	(0.53)	(42.76)	(2.47)	(1.2H/
Connecticut	CI	٠	٠	٠	٠	∞	14	٠	٠	•	٠	\dot{P}'
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District of Columbia	DC	٠	•	٠	•	∞	14	٠	٠	٠	٠	\dot{R}
						(0.12)	(0.04)					1.
Delaware	DE	2	٠	7	33	18	14	П	П	П	3	
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Florida	FL	2	٠	7	99	25	14	Н	\vdash	П	အ	\overline{RV}
		(21.81)		(38.31)	(6.75)	(4.74)	(0.96)	(2.27)	(1.43)	(36.12)	(6.96)	4. H E
Georgia	GA	•	٠			17	14		•	•		$\frac{\dot{W}}{}$
						(2.10)	(0.44)					OI
Hawaii	HI	•	•	٠	38	50	14	٠	•	•	٠	\vec{L}
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		(4.14)		(3.13)	(1.15)	(0.76)	(0.17)	(0.31)	(0.20)	(14.97)	(0.61)	(0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
Idaho		5		7	57	24	14	⊣ '	 .	. .	က	
		(1.96)		(3.73)	(0.62)	(0.36)	(0.08)	(0.22)	(0.14)	(15.41)	(0.62)	
Illinois	I	2	•	7	61	25	14	Τ	1	Η	3	\overline{ST}
		(15.98)		(32.66)	(4.40)	(3.22)	(0.61)	(1.73)	(1.10)	(31.16)	(5.36)	RU Si
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												U

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Massachusetts	MA		•	•		8 (1.09)	14 (0.33)	•				
Maryland	MD	2	٠	7	62	25	14	\vdash	П		3	
Maine	ME	(7.24)		(20.01)	(2.04)	(1.35)	(0.26)	(0.90)	(0.57)	(51.55)	(2.88)	(1
		(1.48)		(1.89)	(0.49)	(0.36)	(0.08)	(0.15)	(0.10)	(10.24)	(0.35)	0
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)	(8.72)	•	(16.47)	(1.96)	(1.41)	(0.31)	(0.84)	(0.54)	(43.25)	(2.68)	RE T
Mississippi	\overline{MS}	•	٠	•	•	· ∞	14	. •				,
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		(10.02)		(20.51)	(2.46)	(1.97)	(0.44)	(1.21)	(0.77)	(22.07)	(3.63)	(2.87)
North Dakota	ND	2		_	25	17	14	1	П	П	က	
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		(9.58)		(11.20)	(2.86)	(2.02)	(0.45)	(0.98)	(0.62)	$\overline{}$) (51.18)	

LEHD-OVERVIEW-S2004 Revision: 219

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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	es202	61	(0.63)	29	(0.63)	٠				25	(0.66)	61	(1.62)	26	(3.88)	٠		56	(1.32)	•		29	(1.70)	09	(6.80)	70 (00 1)	(1.29)	(1.92)	20	(0.06)	61	(2.71)	62	(2.06)	
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Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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7	ehf	7 (1.88)	•	size of all file
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		West Virginia	Wyoming	Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

Files not currently available may become available in the next update to the LEHD Infrastructure (see Section 1.1). At the time of writing of this document, we expect the next version to contain up to 46 states. Availablility of core Infrastructure files is dependent on a state's participation in the Local Employment Dynamics (LED) program. The latest participant list can be found at the LEHD website at http://lehd.did.census.gov.

1.5 PROCESSING FILES

LEHD Infrastructure files are significantly larger than even traditionally large research files such as the decennial census. In the current version, in all available states and years combined, information on 754,775,697 jobs is presented. There are 226,639,116 quarterly observations on firms. Careful planning is required to ensure that adequate resources are available. To facilitate researchers in this endeavor, the research versions of the LEHD Infrastructure files in the RDC environment have additional random variables that allow for the selection of uniform random subsamples of firms (SEIN), establishments (SEINUNIT), and individuals (PIK). No such random variable is available on the EHF, since there is no single good strategy for selecting jobs. Tables in the documentation for individual components also contains information about the size on-disk of each file.

DISCLOSURE LIMITATION 1.6

Special disclosure and data use rules apply to analyses based on the micro-data from the LEHD Infrastructure file system. These data underlie the QWI, and research results are therefore subject to restrictions that insure the QWI disclosure limitation mechanism is not compromised. Disclosure limitation for the QWI uses noise infusion of the micro-data. The Disclosure Review Board (DRB) does not allow the release of any tabulations for sub-state geography that do not use the QWI noise infusion process. In addition, the required noise factors have not been placed on the RDC snapshot files as part of the DRB's normal rules limiting access to the specific parameters of its approved disclosure limitation methods. Only the DRB may approve the release of tabular output from the LEHD infrastructure file system. Sub-state geography tables will not be approved. National or multi-state tables may be approved provided they do not compromise the protection system. Model-based output is normally allowed. The chief disclosure officer for the RDC network will coordinate the reviews.

The underlying micro-data in the LEHD infrastructure file system were provided to the Census Bureau by states' Labor Market Information (LMI) offices under Memoranda of Understanding (also called Data Use Agreements) negotiated with each state. This process is part of the LED federal/state partnership, and places additional restrictions on the results that may be published. Current members of the LED partnership are shown on the LEHD main web page.

Publicly disclosing a single state's data, or any sub-state information such as Metropolitan Statistical Area (MSA) or Core-Based Statistical Area (CBSA), in identifiable form requires the permission of the state's LMI officer. When reporting results from studies that include multiple states, the results should be pooled across the states. State-specific controls can be included, but no coefficients therefrom reported. The identity of the LED member states is obviously not confidential. You may say which states were used in your analysis, and that you controlled for state-specific factors. The chief disclosure officer for the RDC network will review compliance with this requirement in consultation with the Assistant Division Chief for LEHD.

Page 20 LEHD-OVERVIEW-S2004

Chapter 2. Business Register Bridge (BRB)

2.1 OVERVIEW

2.1.1 Definition of BRB

The LEHD employer-level data are at an establishment-level and can be linked to Census Bureau establishment and firm level micro data (e.g. Economic Censuses and Surveys) via this bridge. The bridge provides a crosswalk at various levels of business-unit aggregation. The most detailed exact crosswalk is at an EIN, State, 4-digit industry, county level. The bridge includes the full list of establishments in the LEHD data and in the BR that are associated with the business units (e.g., EIN/4-digit SIC/State/County) in the crosswalk and measures of activity (e.g., employment, sales) that can be used to aggregate the establishment level data.

2.1.2 Update frequency

Updates occur annually.

2.1.3 Acquisition process

The Business Register Bridge (BRB) requires presence of Business Register (BR) (see the BR codebook, yearly acquisition) and the ECF (quarterly updates).

2.1.4 Processing description

Extracts of the Business Register (BR) and the ECF are built, properly aggregated, and output into a single file. A more detailed description is available in Section 2.3.

2.1.5 Naming conventions

Three data files are produced and transferred. The data files from this process conform to LEHD naming conventions and are called

- brb_us_xwalk: the actual bridge, by year, at different levels of aggregation.
- brb_us_ecflist: list of SEINUNITs on the ECF, by quarter
- brb_us_brlist: list of EINs on the BR, by year

Once on the Center for Economic Studies (CES) system, these files are identified as "LEHD-BRB" and renamed to

- lehd_us_brb: the actual Business Register Bridge (BRB), by year, at different levels of aggregation.
- lehd_us_brb_ecflist: list of SEINUNITs on the ECF, by quarter

• lehd_us_brb_brlist: list of EINs on the BR, by year

LEHD-OVERVIEW-S2004Page~22

$\overline{2.2}$ DETAILS

2.3 CHARACTERIZING THE BRIDGE BETWEEN LEHD DATA AND CEN-SUS BUSINESS DATA

2.3.1General Description

One of the many advantages of the LEHD database is the ability it offers to link information from Census Bureau business-level surveys (such as the Annual Survey of Manufacturers (ASM), or Business Expenditure Survey (BES)) to the set of workers employed by these units. The *LEHD Business Register Bridge (BRB)* provides researchers with the tool to make this linkage.

The LEHD data available through the RDCs is described in detail in other documents. In this document, we provide a description of the BRB itself as well as an overview of the business data that is available through this link.

The primary bridge between the LEHD data and the business data is the U.S. Census Bureau's annual Business Register (BR), a list of establishments the Bureau uses to develop the initial mailing list for the economic censuses and surveys. The BR contains data from several different sources. Primarily, however, the BR contains very reliable information on business identifiers, business organizational structure, and business location. All of this detail helps us to form links to the LEHD data.

Unfortunately, we are not able to directly form establishment-to-establishment linkages between LEHD data and the BR. The establishment identification system for the Business Register is the same as for all other Census Bureau business data products but different from the LEHD establishment identifier. Unfortunately, there is no one best way to form linkages between these data sources. There are many alternatives, and the optimal linking strategy depends on the research objective. To provide researchers with as much flexibility as possible, the BRB has been constructed as a crosswalk that allows for a number of different ways to integrate these data sources

2.3.2 File Structure and Contents

2.3.2.1Identifiers

We use three types of identifying variables in the construction of the crosswalk file. These are: business identifier, geographic information, and industry code. Employer Identification Number (EIN) is a nine-digit taxpayer identification number assigned by the Internal Revenue Service (IRS). It is a unique identifier for single units but not for multi-units. Geographic information such as state or county is available. 1987 Standard Industry Classification (SIC) codes are available in 4-digit level

2.3.2.2 Unit of observation

The unit of observation on the BRB file is a unique EIN-State-SIC4-County record. All unique combinations of these identifiers that are found on either the LEHD data, the BR, or both will appear on the crosswalk. We will use the EIN with 15 different combinations of geographic and industry information as follows:

- EIN
- EIN/SIC1
- EIN/SIC2
- EIN/SIC3
- EIN/SIC4
- EIN/STATE
- EIN/STATE/SIC1

- EIN/STATE/SIC2
- EIN/STATE/SIC3
- EIN/STATE/SIC4
- EIN/STATE/COUNTY
- EIN/STATE/COUNTY/SIC1
- \bullet EIN/STATE/COUNTY/SIC2
- EIN/STATE/COUNTY/SIC3
- EIN/STATE/COUNTY/SIC4

2.3.2.3 Structure of output files

For complete technical description, see Section 2.5.

Crosswalk file The crosswalk file contains the following variables

Alpha: Ten-digit enterprise identifier

County: Three-digit county identifier

EIN: Nine-digit employer identifier

Flag_xxx: 15 one-digit match type flags. These flags represent the status of the match corresponding to each level of aggregation, one flag per unique id variable combination. Each flag takes on the value "M", "L", or "B". For example, flag_e_c_2 is the flag variable when we use EIN/County/SIC2 as linking unit and flag_e_s_4 is the flag when we use EIN/State/SIC4 as unit of matching.

M means that the business unit at this level of aggregation is matched.

L means that this business unit is observed only in the LEHD database.

B means that this business unit is observed only in the Business Register.

EIN/County/SIC4 is the most disaggregate level of aggregation we can use to match. So, it is obvious that if the flag value for the EIN State SIC4 County match is "M" then all 15 flags are "M".

SIC1: one-digit 1987 SIC

SIC2: two-digit 1987 SIC

SIC3: three-digit 1987 SIC

SIC4: four-digit 1987 SIC

State: Two-digit state abbreviation (e.g. md)

Stgeo: Two-digit State FIPS code (e.g. 24)

Year: Calendar year

LEHD-OVERVIEW-S2004 Page 24 Revision: 219

List files List files link different business identifiers that are only observed in one database to one of the fifteen level of aggregation used in matching

Business Register Identifiers: Census File Number (CFN), Permanent Plant Number (PPN), Alpha, etc. are captured on brb_us_brlist.sas7bdat

LEHD Identifiers: SEIN, SEINUNIT, etc. are captured on brb_us_ecflist.sas7bdat. *IMPORTANT:* The ECF list file is a quarterly file, not a yearly file!

2.3.3 How to Use The BRB

2.3.3.1 Some considerations

Because there are many ways to use the BRB, finding the optimal way to use it for any given research project requires some researcher planning. The steps outlined here summarize the experience of the LEHD researcher staff in using this crosswalk for a variety of different research projects.

Before making use of the BRB, there are a number of questions a researcher must address, and the answer to these questions will determine how the BRB will be used. To illustrate this point, we take a research topic and cover, step by step, the decisions a researcher would face when identifying the best way to make use of the BRB to build an analytic dataset for the project.

Because there is not a common establishment ID variable on the Census and LEHD business files, the link between the files must be formed at a level of aggregation that is, for many multi-unit businesses, higher than an establishment. Both the set of link variables as well as the unit of observation for the analytic dataset must be selected by the researcher. Note that these need not be the same.

2.3.3.2 Choosing the Link Variables

As noted, the BRB identifies all variables – state, county, and one-, two-, three-, and four-digit industry code – on which an EIN found among LEHD workforce traits and an EIN found on Census business data agree. In addition to EIN, any (or none) of these link variables may be chosen to merge together workforce traits and other business traits for analysis. When making this decision, observation counts in the resulting matched dataset as well as other factors should be considered. For example, if the analysis will focus on particular industries or regions, researchers may wish to require that linked business data agree on SIC or on state and county. In this case, any EIN the BRB indicates to be found on both files but not agreeing on state or industry would not be included in analysis. As we will discuss in the next section, it should be noted that the link variables do not necessarily determine the unit of observation for the analysis

2.3.3.3 Choosing the Base File and Unit of Observation

There are three types of ways the LEHD data may be combined with Census business data to create research-ready datasets. These types are:

- 1. LEHD workforce traits (such as worker churning rates) at the establishment level (or higher) may be linked to more highly aggregated Census business traits (such as labor productivity). In this situation, the LEHD establishments form the "base file."
- 2. Establishment-level Census business traits (such as technology spending relative to a scaling measure) may be linked to more highly aggregated LEHD workforce traits. Here, Census data (such as the Annual Survey of Manufacturers) form the base file.
- 3. Traits aggregated on both sides may be combined using the crosswalk.

In short, researchers linking LEHD workforce traits to other Census business files may choose to aggregate LEHD traits, other business traits, or both. Note that by "aggregate," we mean that establishment-level data should be aggregated to the level of the link (EIN-county, 4-digit SIC, for example), or higher. The

researcher must decide on which side (workforce traits or other business characteristics) it is important to preserve more detail.

2.3.3.4 Example

Suppose we are interested in exploring how worker turnover impacts labor productivity for restaurants. There are two key decisions regarding identifier variables that must be made. Link traits as well as the unit of observation must be chosen. We hope to make it very clear that the two decisions need not be the same, and both will vary with the nature of the research question

A. Choosing the Link Level Because we are interested in restaurants only and because this is a two-digit industry trait, we will most likely want to use records from the BRB where flag_e_2 (at a minimum)='M'. Noting that county-level match rates are high and that a franchised restaurant in downtown Chicago may behave very differently from the same franchise in rural Illinois, we may also require that observations entering our sample all agree on state and county as well and thus choose only to keep those BRB records where flag_e_c_2='M'

B. Choosing the Base File, Supplemental Files, and Unit of Observation From which data source - Census business data or LEHD data - would we like to preserve the most detailed data? Some researchers may in fact choose to sacrifice detail on both sides in favor of uniformity of variable construction. Regardless, because all variables that will characterize the unit of observation are available from other files, the BRB is not needed to obtain them. However, the unit of observation and the linkage unit are closely tied.

For this example, our goal is to characterize variation in labor productivity across restaurants and to determine if those with more worker turnover are less productive. Thus, we will most likely select Census business data as our "base" data source and will link establishment detail on productivity and other business traits to more aggregated workforce traits (in this example, the LEHD workforce aggregated would be the "supplemental" file). Note that this linking assumes that worker churning is similar for all restaurants in the same EIN state and county

2.3.3.5 Summary of How to Use This File:

Make an extract from the BRB sub-setting on all records for each state and year that have a value of "M" for the match flag corresponding to these match variables. The variables to keep include all ID variables needed to make the match. For example, if we sub-set on flag_e_c_2='M', the match variables we keep from the BRB will be:

- EIN
- State
- SIC2
- County
- Year

CAUTION: One should make sure to sort the crosswalk to get unique observation per linking unit when using linking units less detailed than EIN/County/SIC4.

Step 2 Some Base and supplemental files have all the necessary variables such as EIN, State, SIC2, County, and Year. For example, the ASM and Census of Manufactures (CM) have these link variables as well as establishment identifiers such as CFN and PPN. In this case we can match the extract from the BRB with the base file or supplement file (after some aggregation). However, some files do have their own identifiers but not all link variables. In this case, we have to get additional variables from the list files we provide before

LEHD-OVERVIEW-S2004 Page 26 Revision: 219

matching the extract from the BRB with the files of interest. For example, some files have only CFN and year but not EIN. Thus, we must first obtain the CFN from BR list file before matching.

- **Step 3** Select a base file (Census business data or LEHD business data), a supplemental file, and a unit of observation for the final analytic dataset. The base file should be the file from which we could like to preserve the most detail (if aggregation level differences within the same observation are desired).
- **Step 4** From the base file, pull off all observations (matching by the link variables selecting in Step 2) that match to the BRB extract. If allowing for more detailed data from the base file, the dataset resulting from this step will have more observations than the BRB extract.
- Step 5 If the LEHD data has been selected as the base file in Step 3, some collection of Census business data files will be used to construct the supplemental file. The most dis-aggregated level of detail that may be maintained on the supplemental file is defined by the link variables (EIN, state, one-digit SIC, county and year in this example). If the business data variables of interest are reported on the files at this level of aggregation or smaller (typically this will be at an establishment level), then the business data must be aggregated to the level defined by the link variables. Note that some business files contain records reported at higher levels of aggregation. In these cases, no additional aggregation is needed in the construction of the supplemental file. CAUTION: When adding variables at a higher level of aggregation, it is often preferred to use ratios of variables from the same dataset rather than levels of one variable only. For example, rather than using aggregated sales, it is often preferable to weight sales at each establishment by some fraction (where the fractions for each establishment sum to one) before aggregating across establishments.
- **Step 6** Link the supplemental file to the joined base file and BRB extract. Use the same variables used to define the level of aggregation of the supplemental file.
- **Step 7** The construction of the analytic dataset is now complete. Note, however, that not all records in the dataset need be constructed at the same level of aggregation.

2.3.4 Some warnings and caveats

2.3.4.1 Active establishments

In the construction of the crosswalk, duplicates and non-active establishments are deleted (not included) based on Census activity flags from the BR. Invalid, missing, illegible, or out-of-scope industry code, invalid geography, or even zero payroll are *not* grounds for exclusion from the BRB. In particular, invalid codes can and do appear on the BR, and are carried through unchanged.

2.3.4.2 Discrepancies in geo and industry codes

There may be discrepancies between the BR and ES-202 based data for a variety of reasons. Processing issues imply that geo and industry codes may be missing or out of bounds on BR, especially for entrants. It is an open question whether the ES-202 might get information on industry and geo faster than the BR. Note that there is some evidence that suggests that this is the case: Census currently receives a list of industry codes from Bureau of Labor Statistics (BLS) (from its ES-202 processing) for new EINs. Census has typically found these industry codes to be more reliable than either the PBA (principal business activity from income tax forms for businesses) codes they receive from IRS or the industry codes from Social Security Administration (SSA) extracted from the SS-4 form (the form used to apply for an EIN).

In terms of preference, the preference ordering that Census typically uses for industry codes is:

1. Direct Census collection in economic censuses or annual surveys (for most businesses this means only once every five years).

- 2. BLS codes
- 3. SSA codes
- 4. IRS codes

Page~28 $LEHD ext{-}OVERVIEW ext{-}S2004$

2.4 DATA SET DESCRIPTIONS

2.4.1 Naming scheme

There are three files in the BRB group:

brb_us_brlist.sas7bdat
brb_us_ecflist.sas7bdat
brb_us_xwalk.sas7bdat

us indicates that these are files of national scope. All BRB files are considered FTI.

2.4.2 Data location

The files are stored in a directory underneath the general LEHD directory structure:

brb/us/

On the RDC network, the directory can be found under

/mixed/lehd/current

LEHD-OVERVIEW-S2004 Page 29

$\overline{2.4.3}$ Main file: Crosswalk, brb_us_xwalk

Record identifier: year EIN state county sic4???

Sort order: year ein state county sic4

File indexes: none

Entity Link record (many-to-many)

Unique Entity Key year EIN state county sic4

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N
Cleaned ES202 FIPS County CCC	COUNTY	00035	3	A/N
Cleaned SIC Code IIII	SIC4	00020	4	A/N
ES202 FIPS State SS	STGEO	00024	2	A/N
Enterprise identifier	ALPHA	00008	10	A/N
Match flag EIN level	$FLAG_E$	00058	1	A/N
Match flag EIN/SIC1 level	$FLAG_E_1$	00057	1	A/N
Match flag EIN/SIC2 level	$FLAG_E_2$	00056	1	A/N
Match flag EIN/SIC3 level	$FLAG_E_3$	00055	1	A/N
Match flag EIN/SIC4 level	$FLAG_E_4$	00054	1	A/N
Match flag EIN/STATE level	$FLAG_E_S$	00053	1	A/N
Match flag EIN/STATE/COUNTY level	$FLAG_E_S_C$	00048	1	A/N
Match flag EIN/STATE/COUNTY/SIC1	$FLAG_E_S_C_1$	00047	1	A/N
Match flag EIN/STATE/COUNTY/SIC2	$\rm FLAG_E_S_C_2$	00046	1	A/N
Match flag EIN/STATE/COUNTY/SIC3	$FLAG_E_S_C_3$	00045	1	A/N
Match flag EIN/STATE/COUNTY/SIC4	$FLAG_E_S_C_4$	00044	1	A/N
Match flag EIN/STATE/SIC1 level	$FLAG_E_S_1$	00052	1	A/N
Match flag EIN/STATE/SIC2 level	$FLAG_E_S_2$	00051	1	A/N
Match flag EIN/STATE/SIC3 level	$FLAG_E_S_3$	00050	1	A/N
Match flag EIN/STATE/SIC4 level	$FLAG_E_S_4$	00049	1	A/N
One-digit SIC code	SIC1	00043	1	A/N
State FIPS code	STATE	00018	2	A/N
Three-digit SIC Code	SIC3	00038	3	A/N
Two-digit SIC code	SIC2	00041	2	$\dot{A/N}$
Year YYYY	YEAR	00000	8	N

Business Register list: brb_us_brlist

Record identifier: year ein state county sic4 cfn

Sort order: year ein state county sic4 cfn

File indexes: none

Entity Establishment (Census File Number)

Unique Entity Key cfn

 $Page\ 30$ LEHD-OVERVIEW-S2004 Revision: 219

CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Census File Number	CFN	00008	10	A/N
Employer Identification Number	EIN	00036	9	A/N
Enterprise identifier	ALPHA	00018	10	A/N
FIPS State SS	STATE	00028	2	A/N
FIPS State xx	STGEO	00034	2	A/N
FIPS county xxx	COUNTY	00055	3	A/N
Four-digit 1987 SIC	SIC4	00030	4	A/N
Permanent Plant Number	PPN	00045	10	A/N
Year YYYY	YEAR	00000	8	N

2.4.5ECF list: brb_us_ecflist

Record identifier: sein seinunit year quarter

Sort order: year ein state county sic4 sein seinunit quarter

File indexes: none

Entity Reporting unit (State Employment Security Agency (SESA))

Unique Entity Key sein seinunit year quarter

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N
Cleaned ES202 FIPS County CCC	COUNTY	00023	3	A/N
Cleaned SIC Code IIII	SIC4	00019	4	A/N
ES202 FIPS State SS	STGEO	00017	2	A/N
FIPS State SS	STATE	00035	2	A/N
Quarter QQ	QUARTER	00040	3	N
State Employer ID Number	SEIN	00000	12	A/N
State UI Reporting Unit Number	SEINUNIT	00012	5	A/N
Year YYYY	YEAR	00037	3	N

LEHD-OVERVIEW-S2004 Revision: 219

2.5 DATA DICTIONARY

2.5.1 Crosswalk

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N

CHARACTERISTICS

Units Identifier read-in

Algorithm BR and ECF, if available Sourcefile

ALTERNATE DOCUMENTATION n.a.

VALUE TABLE

 $Page\ 32$ $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned ES202 FIPS County CCC	COUNTY	00035	3	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

 ${\rm read\text{-}in}$

Sourcefile Alternate documentation

ECF/BR n.a.

 ${\tt VALUE\ TABLE}$

LEHD-OVERVIEW-S2004 Page 33

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned SIC Code IIII	SIC4	00020	4	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm Sourcefile

read-in ECF/BR

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

Page~34 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
ES202 FIPS State SS	STGEO	00024	2	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

read-in

Sourcefile

BR

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

 $Page\ 35$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Enterprise identifier	ALPHA	00008	10	A/N

${\it CHARACTERISTICS}$

Units

Algorithm

Identifier read-in

Sourcefile

BR

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

Page~36 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN level	FLAG_E	00058	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN level

LEHD-OVERVIEW-S2004

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC1 level	FLAG_E_1	00057	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC1 level

Page~38 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC2 level	FLAG_E_2	00056	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC2 level

LEHD-OVERVIEW-S2004

 $Page\ 39$

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC3 level	FLAG_E_3	00055	1	A/N

${\it CHARACTERISTICS}$

Units

Flag comp

ALGORITHM SOURCEFILE

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC3 level

Page 40 LEHD-OVERVIEW-S2004

Revision: 219

	D		T: 11	ъ.
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC4 level	FLAG_E_4	00054	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC4 level

LEHD-OVERVIEW-S2004 Page 41

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE level	FLAG_E_S	00053	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

ALGORITHM SOURCEFILE

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE level

Page 42

LEHD-OVERVIEW-S2004

Field name	Data dictionary reference name	Starting position	Field size	Data type
Match flag EIN/STATE/COUNTY level	FLAG_E_S_C	00048	1	A/N

CHARACTERISTICS

Units

Flag

Algorithm

 $\begin{array}{c} computed \\ see \ 04_brb.sas \end{array}$

Sourcefile Alternate documentation

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

 $\mathcal{M}\textsc{:}$ matched in EIN/STATE/COUNTY level

Field name	Data d	lictionary	Starting	Field	Data
	reference	e name	position	size	type
Match	FLAG_E_	S_C_1	00047	1	A/N
EIN/STATE/COUNTY/SIC1					

CHARACTERISTICS

Units Flag

computed

Algorithm Sourcefile

see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC1 level

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Page~44

Field name		Data dictionary	Starting	Field	Data
		reference name	position	size	type
Match	lag	FLAG_E_S_C_2	00046	1	A/N
EIN/STATE/COUNTY/SIC2					

CHARACTERISTICS

Units

Flag

Algorithm

 $\begin{array}{c} computed \\ see \ 04_brb.sas \end{array}$

Sourcefile Alternate documentation

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC2 level

LEHD-OVERVIEW-S2004 Page 45

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match fla	FLAG_E_S_C_3	00045	1	A/N
EIN/STATE/COUNTY/SIC3				

CHARACTERISTICS

Units Flag

Algorithm Sourcefile

computedsee 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC3 level

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Page~46Revision: 219

Field name		Data dictionary	Starting	Field	Data
		reference name	position	size	type
Match	flag	FLAG_E_S_C_4	00044	1	A/N
EIN/STATE/COUNTY/SIC4					

CHARACTERISTICS

Units

Flag

Algorithm

 $\begin{array}{c} computed \\ see \ 04_brb.sas \end{array}$

Sourcefile Alternate documentation

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC4 level

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC1 level	FLAG_E_S_1	00052	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC1 level

Page~48 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC2 level	FLAG_E_S_2	00051	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed

SOURCEFILE ALTERNATE DOCUMENTATION

see 04_brb.sas n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC2 level

Page~49

 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC3 level	FLAG_E_S_3	00050	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

Sourcefile ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC3 level

Page~50 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC4 level	FLAG_E_S_4	00049	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

ALGORITHM SOURCEFILE

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC4 level

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
One-digit SIC code	SIC1	00043	1	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm

derived

Sourcefile

sic1 = substr(sic4,1,1)

ALTERNATE DOCUMENTATION

VALUE TABLE

n.a.

 $Page\ 52$ $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State FIPS code	STATE	00018	2	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

read-in

SOURCEFILE ALTERNATE DOCUMENTATION

ECF n.a.

VALUE TABLE

.

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004 \\ Revision: 219 \end{array}$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Three-digit SIC Code	SIC3	00038	3	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm

derived

Sourcefile

sic3 = substr(sic4,1,3)

ALTERNATE DOCUMENTATION

n.a.

${\tt VALUE\ TABLE}$

Page~54 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Two-digit SIC code	SIC2	00041	2	A/N

${\it CHARACTERISTICS}$

Units

Industry derived

n.a.

ALGORITHM SOURCEFILE

sic2 = substr(sic4,1,2)

ALTERNATE DOCUMENTATION

 ${\tt VALUE\ TABLE}$

.

LEHD-OVERVIEW-S2004 Page 55

Revision: 219

Field name	Data dictionary reference name	Starting position	Field size	Data type
Year YYYY	YEAR	00000	8	N

${\it CHARACTERISTICS}$

Units Calendar Algorithm read-in

ECF and BR Sourcefile

ALTERNATE DOCUMENTATION n.a.

Page~56 $LEHD ext{-}OVERVIEW ext{-}S2004$

2.5.2 BR list

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Census File Number	CFN	00008	10	A/N

CHARACTERISTICS

Units Identifier

read-in Algorithm

Sourcefile BRn.a.

ALTERNATE DOCUMENTATION

 $LEHD ext{-}OVERVIEW ext{-}S2004$

Page~57

Revision: 219

Field name	Data dictionary reference name	Starting	Field size	Data type
Employer Identification Number	EIN	00036	9	A/N

${\it CHARACTERISTICS}$

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

Page~58 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

Field name	Data dictionary reference name	Starting position	Field size	Data type
Enterprise identifier	ALPHA	00018	10	A/N

CHARACTERISTICS

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State SS	STATE	00028	2	A/N

${\it CHARACTERISTICS}$

Units Geography

state=lowcase(fipstate(stgeo)) Algorithm

Sourcefile derived

ALTERNATE DOCUMENTATION n.a.

Page~60 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State xx	STGEO	00034	2	A/N

${\it CHARACTERISTICS}$

Units Geography

Algorithm

read-in

Sourcefile

BR n.a.

ALTERNATE DOCUMENTATION r

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS county xxx	COUNTY	00055	3	A/N

${\it CHARACTERISTICS}$

Units Geography

read-in Algorithm

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

 $Page\ 62$ $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Four-digit 1987 SIC	SIC4	00030	4	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

LEHD-OVERVIEW-S2004 Page 63

Field name	Data dictionary reference name	Starting position	Field size	Data type
Permanent Plant Number	PPN	00045	10	A/N

${\it CHARACTERISTICS}$

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

Page~64 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Year YYYY	YEAR	00000	8	N

CHARACTERISTICS

Units Calendar

Algorithm

read-in

Page~65

SOURCEFILE ALTERNATE DOCUMENTATION

BR n.a.

LEHD-OVERVIEW-S2004

Revision: 219

2.5.3 ECF list

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N

CHARACTERISTICS

Units Identifier ${\rm read\text{-}in}$ Algorithm

Sourcefile ECF (availability differs across states)

ALTERNATE DOCUMENTATION ECF documentation

Page~66 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary	Starting position	Field	Data
Cleaned ES202 FIPS County CCC	reference name COUNTY	00023	size 3	A/N

${\it CHARACTERISTICS}$

Units Geography

ALGORITHM read-in SOURCEFILE ECF

ALTERNATE DOCUMENTATION ECF documentation

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned SIC Code IIII	SIC4	00019	4	A/N

${\it CHARACTERISTICS}$

Units Industry

read-in Algorithm ECF Sourcefile

ECF documentation ALTERNATE DOCUMENTATION

Page~68 $LEHD ext{-}OVERVIEW ext{-}S2004$

Field name	Data dictionary reference name	Starting	Field size	Data type
ES202 FIPS State SS	STGEO	00017	2	A/N

${\it CHARACTERISTICS}$

Units Geography

Algorithm rename es_state=stgeo

Sourcefile ECF

ALTERNATE DOCUMENTATION ECF documentation

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State SS	STATE	00035	2	A/N

${\it CHARACTERISTICS}$

Units Geography

state=lowcase(fipstate(stgeo)) Algorithm

Sourcefile derived

ALTERNATE DOCUMENTATION n.a.

Page~70 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Quarter QQ	QUARTER	00040	3	N

CHARACTERISTICS

Units Calendar

Algorithm read-in

Sourcefile ECF

ALTERNATE DOCUMENTATION n.a.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State Employer ID Number	SEIN	00000	12	A/N

${\it CHARACTERISTICS}$

Units (State-specific) Identifier

ALGORITHM read-in SOURCEFILE ECF

ALTERNATE DOCUMENTATION ECF documentation

Page 72 LEHD-OVERVIEW-S2004

CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State UI Reporting Unit Number	SEINUNIT	00012	5	A/N

${\it CHARACTERISTICS}$

Units (State-specific) Identifier

ALGORITHM read-in SOURCEFILE ECF

ALTERNATE DOCUMENTATION ECF documentation

CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Year YYYY	YEAR	00037	3	N

${\it CHARACTERISTICS}$

UNITS Calendar ALGORITHM read-in

Sourcefile ECF

ALTERNATE DOCUMENTATION ECF documentation

Page 74 LEHD-OVERVIEW-S2004

CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB) 2.5.4 Summary information on datasets

Table 2.47: File information for BRB

			Number of		Filesizes		
State		Group	datafiles	Records	(MB)	Start	End
National	US	BRB	3	450,754,439	27,952.56	n.a.	n.a.

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Page~75

2.6 NOTES

Page~76 $LEHD ext{-}OVERVIEW ext{-}S2004$

Chapter 3. Employer Characteristics File (ECF)

3.1 OVERVIEW

3.1.1 General Overview

The Employer Characteristics File (ECF) consolidates most firm level information (size, location, industry, etc.) into two easily accessible files. The firm or SEIN level file contains one record for every YEAR QUARTER a firm is present in either the ES-202 or the UI, with more detailed information available for the establishments of multi-unit firms in the SEIN SEINUNIT file. The SEIN file is built up from the SEINUNIT file and contains no additional information, but should be viewed merely as an easier and/or more efficient way to access firm level data.

3.1.2 Input Files

- The ES202 data from the states is the primary input to the ECF file creation process.
- UI data is also used to supplement information on the ES202. As part of the creation of the Employment History Files (EHF), ehf_sein_employment is created. This file contains E (end of period employment), B (beginning of period employment), M (employed anytime in the quarter), and W1 (total wages) calculated similarly to the same measures on the QWI (see Abowd et al., 2006, ming).
- GAL data containing lat/long coordinates of the establishments, plus county, wib and pmsa geo also.
- Existing files with permanent distortion factors must be available if data for the state has been officially released. (these files are not available in the RDC network.
- SIC and NAICS impute datasets: available upon demand.
- BLS-derived control totals, produced by the EHF.

3.1.3 Program Overview

First data is read in from the yearly ES202 files and stacked one on top of the other. General and state specific consistency checks are then performed. The COUNTY, NAICS, and EIN data are checked for invalid values. The SIC invalid check is a little more sophisticated. If a 4 digit SIC code is present, but is not valid, then the SIC code undergoes a conditional impute based on the first 2 or 3 digits. If the first 2 or 3 digits are not valid either, then SIC is set to missing (this value will eventually be filled).

The ES202 data contains a "master" record for multi-unit firms that must be removed. Information in the master record is preserved if data is not available in the establishment records (data is initially allocated equally to each establishment). Various inconsistencies in the record structure are also dealt with, such as 2 records (master and establishment) appearing for a single-unit.

The $\overline{\text{UI}}$ data is integrated with the ES202 data and totals are calculated at the SEIN YEAR QUARTER level.

Revision: 219

Using both UI and ES202 data a "best" series of variables for payroll and employment is created.

The allocation process implemented above (master to establishments) does not incorporate any information on the structure of the firm. A flat prior is used in the allocation process (each establishment is assumed to have equal employment and payroll). We improve on this by examining firms with allocated data that previously reported as a multi-unit. The structure of their reports from a previous quarter is then used to allocate payroll and employment. The new records are integrated back into the data, hopefully improving longitudinal consistency at the establishment level.

At this point, the SEIN YEAR QUARTER SEINUNIT dataset record structure is finalized.

The GAL is brought into the ECF (this used to be the separate LEG process).

The COUNTY, SIC, NAICS, and EIN data are transformed from long to wide format for each SEINUNIT. This dataset is used to fill missing values in these variables with information from other periods for the same establishment.

The modal COUNTY, SIC, NAICS, OWNER_CODE, and EIN are calculated (both establishment and employment weighted) for each **SEIN** in a given YEAR and QUARTER.

The SEIN level mode variables (SIC, NAICS, etc) are then transformed from long to wide and the missing values are filled with data from the closest YEAR and QUARTER, if available.

At this point, if an SEIN mode variable has a missing value, then that missing value must be present for every YEAR and QUARTER. The distribution of employment across 4 digit SIC in 1997 is calculated and is used to impute the industry code for each SEIN with missing SIC. These SIC codes are also assigned to the **SEINUNIT** level data.

The weights are calculated, based on the expanded BLS controltotals acquired from the EHF.

The final step is to apply fuzz (noise distortion) factors to each dataset. The fuzz factor process is done separately for the SEIN and the SEINUNIT data. Once this is completed the datasets are written to their final location and the master fuzz files are updated.

ECF FILES AND TITLE 26 IN THE RDC ENVIRONMENT 3.2

Because some data elements on the internal-use ECF are considered Title 26-protected, the structure of the files has been slightly modified for the RDC environment to facilitate and streamline project proposals by clearly identifying files without any Title 26-protected data (from Fall 2006 onwards).

All Title 26-protected information has been stripped out of the main ECF files, and stored in strip files with the same record count, but only those variables that are Title 26 protected.

Users will find all Title 13-protected content in the directories

```
ecf/ecf_XX_sein.sas7bdat
ecf/ecf_XX_seinunit.sas7bdat
```

Title 26-protected content can be found in

```
ecft26/ecf_XX_sein_t26.sas7bdat
ecft26/ecf_XX_seinunit_t26.sas7bdat
```

Sample code to merge the two types of files back together again is listed in Section 3.5.

Page 78 Revision: 219

3.3 DATA SET DESCRIPTIONS

3.3.1 Naming scheme

There are four files in the ECF/ECFT26 group:

```
ecf_zz_sein.sas7bdat
ecf_zz_seinunit.sas7bdat
ecf_zz_sein_t26.sas7bdat
ecf_zz_seinunit_t26.sas7bdat
```

ZZ stands for the state postal abbreviation. Files with _t26 contain FTI, are stored in separate subdirectories and require a separate set of permissions. They are of little use without the regular ECF group data. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

3.3.2 Data location

The files are stored in two main directories, with state-specific subdirectories:

 $\begin{array}{ll} \text{ecf/ZZ/} & \text{for most files} \\ \text{ecft26/ZZ} & \text{for files with Title 26 protected content} \end{array}$

On the RDC network, both directories can be found under

/mixed/lehd/current

 $\begin{array}{l} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 219 \end{array}$

3.3.3 Main SEINUNIT dataset: ecf_zz_seinunit

SEINUNIT-level file, with some SEIN-level variables available.

Record identifier: SEIN SEINUNIT YEAR QUARTER

Sort order: SEIN SEINUNIT YEAR QUARTER

File indexes: SEIN_YEAR_QUARTER_SEINUNIT (on ia64 systems only)

Entity "establishment" or SESA

Unique Entity Key SEIN SEINUNIT

Note that SEINUNIT is only unique within any given time period within SEIN.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
0 if seinunit=00000	SEINUNIT_TYPE	00138	3	N
0=ok,1=not found,2+found off qtr	ES_COUNTY_MISS	00258	3	N
0=ok,1=not found,2+found off qtr	ES_EIN_MISS	00264	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS1997_MISS	00240	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS2002_MISS	00243	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_AUX1997_MISS	00246	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_AUX2002_MISS	00249	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_ESO1997_MISS	00318	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_ESO2002_MISS	00321	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_FNL1997_MISS	00324	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_FNL2002_MISS	00327	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_IMP1997_MISS	00016	8	N
0=ok,1=not found,2+found off qtr	ES_NAICS_IMP2002_MISS	00024	8	N
0=ok,1=not found,2+found off qtr	ES_NAICS_LDB1997_MISS	00252	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_LDB2002_MISS	00255	3	N
0=ok,1=not found,2+found off qtr	ES_OWNER_CODE_MISS	00261	3	N
0=ok,1=not found,2+found off qtr	ES_SIC_MISS	00237	3	N
1=UI only,2=202 only,3=both	SOURCE	00189	3	N
Auxiliary Code	AUXILIARY_CODE	00543	1	A/N
Best SEIN UI Employment	EMP1_UI	00096	4	Ň
Best SEIN UI Employment	EMP2_UI	00100	4	N
Best SEIN UI Employment	EMP3_UI	00104	4	N
Best UI/202 Employment Month 1	BEST_EMP1	00108	4	N
Best UI/202 Employment Month 2	BEST_EMP2	00112	4	N
Best UI/202 Employment Month 3	BEST_EMP3	00116	4	N
Best UI/202 Wages	BEST_WAGES	00206	5	N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS1997	00657	6	A/N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS2002	00663	6	A/N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS_AUX1997	00669	6	A/N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS_LDB1997	00681	6	A/N
Cleaned 2002 NAICS Code NNNNNN	ES_NAICS_AUX2002	00675	6	A/N
Cleaned 2002 NAICS Code NNNNNN	ES_NAICS_LDB2002	00687	6	A/N
Cleaned EIN	ES_EIN	00648	9	A/N
Cleaned ES202 FIPS County CCC	ES_COUNTY	00645	3	A/N
Cleaned GEO FIPS County CCC	LEG_COUNTY	00638	3	A/N
Cleaned GEO State SS	LEG_STATE	00634	2	A/N
Cleaned OWNER_CODE O	ES_OWNER_CODE	00693	1	A/N
Cleaned SIC Code II	ES_SIC_2	00927	2	A/N
Cleaned SIC Code III	ES_SIC_3	00929	3	A/N
Cleaned SIC Code IIII	ES_SIC	00641	4	A/N
Cleaned SIC Division I	ES_SIC_DIV	00942	1	A/N
Continuous Time YEAR QUARTER	YR_QTR	00498	6	A/N
EIN in known IRD	VALID_EIN	00223	3	N
ES202 FIPS State SS	ES_STATE	00636	2	A/N
ES202 Multi Unit Code	MULTI_UNIT_CODE	00509	1	A/N
ES202 ONLY 1997 NAICS Code NNNNNN	ES_NAICS_ESO1997	00706	6	A/N

Page 80 LEHD-OVERVIEW-S2004

CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

CHAPTER 3. EMPLOYER CHARACTERIST			D: 11	
Field name	Data dictionary	Starting	Field	Data
Tigger ONLY cons 22 12 22 2	reference name	position	size	type
ES202 ONLY 2002 NAICS Code NNNNNN	ES_NAICS_ESO2002	00712	6	A/N
Emp Mode Cleaned County	MODE_ES_COUNTY_EMP	00814	3	A/N
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00817	9	A/N
Emp Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY_EMP	00886	3	A/N
Emp Mode Cleaned GEO COUNTY	MODE LEG_SUBCTYGEO_EMP	00899	10	A/N
Emp Mode Cleaned GEO MSAPMSA	MODE_LEG_MSAPMSA_EMP	00871	8	A/N
Emp Mode Cleaned GEO STATE	MODE LEG WIR EMP	00881	2	A/N
Emp Mode Cleaned GEO WIB Emp Mode Cleaned NAICS 1997	MODE_LEG_WIB_EMP	00857	6 6	A/N
Emp Mode Cleaned NAICS 1997 Emp Mode Cleaned NAICS 1997	MODE_ES_NAICS_ESO1997_EMP MODE_ES_NAICS_FNL1997_EMP	$00826 \\ 00838$	6	A/N A/N
Emp Mode Cleaned NAICS 1997 Emp Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNE1997_EMP	00832	6	A/N A/N
Emp Mode Cleaned NAICS 2002 Emp Mode Cleaned NAICS 2002	MODE_ES_NAICS_ESO2002_EMP	00844	6	A/N
Emp Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE_EMP	00850	1	A/N
Emp Mode Cleaned SIC	MODE_ES_SIC_EMP	00810	4	A/N
Final 1997 NAICS Code NN	ES_NAICS_FNL1997_2	00932	2	A/N
Final 1997 NAICS Code NN	ES_NAICS_FNL2002_2	00937	2	A/N
Final 1997 NAICS Code NNN	ES_NAICS_FNL1997_3	00934	3	A/N
Final 1997 NAICS Code NNN	ES_NAICS_FNL2002_3	00939	3	A/N
Final 1997 NAICS Code NNNN	ES_NAICS_FNL1997_4	00943	6	A/N
Final 1997 NAICS Code NNNN	ES_NAICS_FNL2002_4	00949	4	A/N
Final 1997 NAICS Code NNNNN	ES_NAICS_FNL1997_5	00953	6	A/N
Final 1997 NAICS Code NNNNN	ES_NAICS_FNL2002_5	00959	5	A/N
Final 1997 NAICS Code NNNNNN	ES_NAICS_FNL1997	00694	6	A/N
Final 2002 NAICS Code NNNNNN	ES_NAICS_FNL2002	00700	6	A'N
Final GALID	LEG_GALID	00619	15	A'N
First Quarter SEIN on 202	MULTI_FIRST_QUARTER	00160	3	Ň
First Year SEIN on 202	MULTI_FIRST_YEAR	00157	3	N
Flag, number of quarters to find geocodes	LEG_FLAG_GEO	00234	3	N
GALID of address on es202	ES_GALID	00580	15	A/N
Indicator code Month 1	EMPL_MONTH1_FLG	00510	1	A/N
Indicator code Month 2	EMPL_MONTH2_FLG	00511	1	A/N
Indicator code Month 3	EMPL_MONTH3_FLG	00512	1	A/N
Indicator code Total wages	TOTAL_WAGES_FLG	00513	1	A/N
Latitude, 6 implied decimal places	LEG_LATITUDE	00000	8	N
Letters a-z,A-Z in EIN	EIN_BAD	00217	3	N
Longitude, 6 implied decimal places	LEG_LONGITUDE	80000	8	N
MSAPMSA metro area code, mmmmmmmm	LEG_MSAPMSA	00595	8	A/N
MULTI ever ES202 wages	EVER_WAGES	00166	3	N
MULTI ever has ES202 month 1 employment	EVER_EMP1	00169	3	N
MULTI ever has ES202 month 2 employment	EVER_EMP2	00172	3	N
MULTI ever has ES202 month 3 employment	EVER_EMP3	00175	3	N
Missing Value	MODE_ES_COUNTY_EMP_MISS	00423	3	N
Missing Value	MODE_ES_COUNTY_MISS	00345	3	N
Missing Value	MODE_ES_EIN_EMP_MISS	00429	3	N
Missing Value	MODE_ES_EIN_MISS MODE_ES_NAICS_ESO1997_EMP_MISS	00351	3	N
Missing Value Missing Value	MODE_ES_NAICS_ESO1997_EMP_MISS MODE_ES_NAICS_ESO1997_MISS	00411 00333	3 3	N N
Missing Value	MODE_ES_NAICS_ESO1997_MISS MODE_ES_NAICS_ESO2002_EMP_MISS	00333	3	N
Missing Value Missing Value	MODE_ES_NAICS_ESO2002_EMF_WISS MODE_ES_NAICS_ESO2002_MISS	00336	3	N
Missing Value	MODE_ES_NAICS_ESOZUOZ_MISS MODE_ES_NAICS_FNL1997_EMP_MISS	00330	3	N
Missing Value	MODE_ES_NAICS_FNL1997_MISS	00339	3	N
Missing Value	MODE_ES_NAICS_FNL2002_EMP_MISS	00420	3	N
Missing Value	MODE_ES_NAICS_FNL2002_EMI _MISS	00342	3	N
Missing Value	MODE_ES_OWNER_CODE_EMP_MISS	00426	3	N
Missing Value	MODE_ES_OWNER_CODE_MISS	00348	3	N
Missing Value	MODE_ES_SIC_EMP_MISS	00408	3	N
Missing Value	MODE_ES_SIC_MISS	00330	3	N
Missing Value	MODE_LEG_COUNTY_EMP_MISS	00441	3	N
Missing Value	MODE_LEG_COUNTY_MISS	00363	3	N
Missing Value	MODE_LEG_MSAPMSA_EMP_MISS	00435	3	N
Missing Value	MODE_LEG_MSAPMSA_MISS	00357	3	N
Missing Value	MODE_LEG_STATE_EMP_MISS	00438	3	N
Missing Value	MODE_LEG_STATE_MISS	00360	3	N

LEHD-OVERVIEW-S2004

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Missing Value	MODE_LEG_SUBCTYGEO_EMP_MISS	00444	3	N
Missing Value	MODE_LEG_SUBCTYGEO_MISS	00366	3	N
Missing Value	$MODE_LEG_WIB_EMP_MISS$	00432	3	N
Missing Value	MODE_LEG_WIB_MISS	00354	3	N
Multiunit Imputed Record Structure	STRUCTURE_FIX	00211	3	N
NAICS Code not Valid	NAICS_1997_INVALID	00545	1	A/N
NAICS Code not Valid	NAICS_2002_INVALID	00546	1	A/N
NAICS Code not Valid	NAICS_AUX_1997_INVALID	00547	1	A/N
NAICS Code not Valid	NAICS_AUX_2002_INVALID	00548	1	A/N
NAICS Code not Valid	NAICS_LDB_1997_INVALID	00566	1	A/N
NAICS Code not Valid	NAICS_LDB_2002_INVALID	00567	1	A/N
Number of Establishments	NUM_ESTABS	00056	4	N
Original ES202 County	COUNTY	00563	3	A/N
Original ES202 EIN	EIN	00554	9	A/N
Original ES202 Employment Month 1	EMPL_MONTH1	00084	4	N
Original ES202 Employment Month 2	EMPL_MONTH2	00088	4	N
Original ES202 Employment Month 3	EMPL_MONTH3	00092	4	N
Original ES202 SIC	SIC	00550	4	A/N
Original ES202 wages	TOTAL_WAGES	00184	5	N
Original NAICS 1997 Code	NAICS1997	00519	6	A/N
Original NAICS 2002 Code	NAICS2002	00525	6	A/N
Original NAICS AUX 1997 Code	NAICS_AUX1997	00531	6	A/N
Original NAICS AUX 2002 Code	NAICS_AUX2002	00537	6	A/N
Original NAICS LDB 1997 Code	NAICS_LDB1997	00568	6	A/N
Original NAICS LDB 2002 Code	NAICS_LDB2002	00574	6	A/N
Original Owner Code	OWNER_CODE	00544	1	A/N
Original UI Payroll Info W1	PAYROLL	00147	5	N
Problem with EIN	EIN_DEFECT	00220	3	N
Quality of final geography	LEG_GEO_QUAL	00231	3	N
Quarter QQ	QUARTER	00144	3	N
Quarters Away County data found	ES_COUNTY_FLAG	00288	3	N
Quarters Away Data Found	MODE_ES_COUNTY_EMP_FLAG	00462	3	N
Quarters Away Data Found	MODE_ES_COUNTY_FLAG	00384	3	N
Quarters Away Data Found	MODE_ES_EIN_EMP_FLAG	00468	3	N
Quarters Away Data Found	MODE_ES_EIN_FLAG	00390	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO1997_EMP_FLAG	00450	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO1997_FLAG	00372	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO2002_EMP_FLAG	00453	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO2002_FLAG	00375	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL1997_EMP_FLAG	00456	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL1997_FLAG	00378	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL2002_EMP_FLAG	00459	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL2002_FLAG	00381	3	N
Quarters Away Data Found	MODE_ES_OWNER_CODE_EMP_FLAG	00465	3	N
Quarters Away Data Found	MODE_ES_OWNER_CODE_FLAG	00387	3	N
Quarters Away Data Found	MODE_ES_SIC_EMP_FLAG	00447	3	N
Quarters Away Data Found	MODE_ES_SIC_FLAG	00369	3	N
Quarters Away Data Found	MODE_LEG_COUNTY_EMP_FLAG	00480	3	N
Quarters Away Data Found	MODE_LEG_COUNTY_FLAG	00402	3	N
Quarters Away Data Found	MODE_LEG_MSAPMSA_EMP_FLAG	00474	3	N
Quarters Away Data Found	MODE_LEG_MSAPMSA_FLAG	00396	3	N
Quarters Away Data Found	MODE_LEG_STATE_EMP_FLAG	00477	3	N
Quarters Away Data Found	MODE_LEG_STATE_FLAG	00399	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_STATE_FEAG MODE_LEG_SUBCTYGEO_EMP_FLAG	00483	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_SUBCTYGEO_FLAG MODE_LEG_SUBCTYGEO_FLAG	00405	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_SUBCTYGEO_FLAG MODE_LEG_WIB_EMP_FLAG	00403	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_WIB_FLAG MODE_LEG_WIB_FLAG	00393	3	N
Quarters Away EIN data found		00393	3 3	N
•	ES_EIN_FLAG		3 3	N N
Quarters Away NAICS data found	ES_NAICS1997_FLAG	00270	3 3	
Quarters Away NAICS data found	ES_NAICS AUX 1007 FLAG	00273	3 3	N
Quarters Away NAICS data found	ES_NAICS_AUX1997_FLAG	00276		N
Quarters Away NAICS data found	ES_NAICS_AUX2002_FLAG	00279	3	N
Quarters Away NAICS data found	es_naics_ldb1997_flag	00282	3	N

Page 82 LEHD-OVERVIEW-S2004

CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

Field name	Data dictionary	Starting	Field	Data
Tion name	reference name	position	size	type
Quarters Away NAICS data found	ES_NAICS_LDB2002_FLAG	00285	3	N
Quarters Away OWNER_CODE data found	ES_OWNER_CODE_FLAG	00291	3	N
Quarters Away SIC data found	ES_SIC_FLAG	00267	3	N
Random sample selector for SEIN	SAMPLE_SEIN	00040	8	N
Random sample selector for SEINUNIT	SAMPLE_SEINUNIT	00048	8	N
SEIN 202 Employment Month 1	SEIN_EMP1	00072	4	N
SEIN 202 Employment Month 2	SEIN_EMP2	00076	4	N
SEIN 202 Employment Month 3	SEIN_EMP3	00080	4	N
SEIN 202 Wages SEIN Best UI/202 Month 1, Employment	SEIN_WAGES	$00152 \\ 00120$	$\frac{5}{4}$	N N
SEIN Best UI/202 Month 1, Employment SEIN Best UI/202 Month 2, Employment	SEIN_BEST_EMP1 SEIN_BEST_EMP2	00124	4	N
SEIN Best UI/202 Month 3, Employment	SEIN_BEST_EMP3	00124	4	N
SEIN Best UI/202 Payroll	SEIN_BEST_WAGES	00226	5	N
SEIN UI Wages	WAGES_UI	00201	5	N
SEIN ever multi unit	EVER_MULTI	00163	3	N
SEIN ever on 202	EVER_202	00178	3	N
SEIN ever on UI	EVER_UI	00181	3	N
SEIN in ES202	IN_202	00195	3	N
SEIN in UI	IN_UI	00192	3	N
SEIN w/2+ records on 202	MULTI_UNIT	00135	3	N
SEINUNIT data non-numeric	SEINUNIT_BAD	00132	3	N
SIC Code not Valid	SIC_INVALID	00549	1	A/N
SIC IMP 1997 NAICS Code NNNNNN	ES_NAICS_IMP1997	00718	6	A/N
SIC IMP 2002 NAICS Code NNNNNN	ES_NAICS_IMP2002	00724	6	A/N
Seinunit has some NAICS info	ES_NAICS1997_VALID	00300	3	N
Seinunit has some NAICS info Seinunit has some NAICS info	es_naics2002_valid es_naics_aux1997_valid	00303 00306	3	N N
Seinunit has some NAICS info	ES_NAICS_AUX1997_VALID ES_NAICS_AUX2002_VALID	00309	3	N
Seinunit has some NAICS info	ES_NAICS_LDB1997_VALID	00309	3	N
Seinunit has some NAICS info	ES_NAICS_LDB2002_VALID	00315	3	N
Seinunit has some SIC info	ES_SIC_VALID	00297	3	N
Source of Ind Code	ES_NAICS1997_SRC	00733	3	A/N
Source of Ind Code	ES_NAICS2002_SRC	00736	3	A/N
Source of Ind Code	ES_NAICS_AUX1997_SRC	00739	3	A/N
Source of Ind Code	ES_NAICS_AUX2002_SRC	00742	3	A/N
Source of Ind Code	ES_NAICS_ESO1997_SRC	00763	3	A/N
Source of Ind Code	ES_NAICS_ESO2002_SRC	00766	3	A/N
Source of Ind Code	ES_NAICS_FNL1997_SRC	00751	3	A/N
Source of Ind Code	ES_NAICS_FNL2002_SRC	00754	3	A/N
Source of Ind Code	ES_NAICS_IMP1997_SRC	00757	3	A/N
Source of Ind Code	ES_NAICS_IMP2002_SRC	00760	3	A/N
Source of Ind Code Source of Ind Code	ES_NAICS_LDB1997_SRC ES_NAICS_LDB2002_SRC	$00745 \\ 00748$	3 3	A/N A/N
Source of Ind Code	ES_SIC_SRC	00748	3	A/N
Source of best_ data	BEST_FLAG	00214	3	N
State Employer ID Number	SEIN	00486	12	A/N
State UI Reporting Unit Number	SEINUNIT	00504	5	A/N
Stored Master Multi Code	MASTER_MULTI_UNIT_CODE	00518	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH1_FLG	00514	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH2_FLG	00515	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH3_FLG	00516	1	A/N
Stored Master Record Flag	${\tt MASTER_TOTAL_WAGES_FLG}$	00517	1	A/N
Sub-county geocode	LEG_SUBCTYGEO	00609	10	A/N
UI Employment B	SEINSIZE_B	00068	4	N
UI Employment E	SEINSIZE_E	00064	4	N
UI Employment M	SEINSIZE_M MODE ES COUNTY	00060	4	N
Unit Mode Cleaned County	MODE ES EIN	00773	3	A/N
Unit Mode Cleaned EIN Unit Mode Cleaned GEO COUNTY	MODE LEC COUNTY	00776	9	A/N
Unit Mode Cleaned GEO COUNTY Unit Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY MODE_LEG_SUBCTYGEO	00883 00889	3 10	A/N A/N
Unit Mode Cleaned GEO MSAPMSA	MODE_LEG_SUBCT TGEO MODE_LEG_MSAPMSA	00863	8	A/N A/N
Unit Mode Cleaned GEO STATE	MODE_LEG_STATE	00803	2	A/N
Unit Mode Cleaned GEO WIB	MODE_LEG_WIB	00873	6	A/N
		30001	Ŭ	/

LEHD-OVERVIEW-S2004

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Unit Mode Cleaned NAICS 1997	MODE_ES_NAICS_ESO1997	00785	6	A/N
Unit Mode Cleaned NAICS 1997	MODE_ES_NAICS_FNL1997	00797	6	A/N
Unit Mode Cleaned NAICS 2002	MODE_ES_NAICS_ESO2002	00791	6	A/N
Unit Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNL2002	00803	6	A/N
Unit Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE	00809	1	A/N
Unit Mode Cleaned SIC	MODE_ES_SIC	00769	4	A/N
WIB code, wwwwww	LEG_WIB	00603	6	A/N
Weight $sum(B_UI) = sum(month1_BLS)$	QWI_UNIT_WEIGHT	00032	8	N
Year YYYY	YEAR	00141	3	N
candidate for structure fix	SPECIAL_HANDLE	00198	3	N

LEHD-OVERVIEW-S2004Page~84

3.3.4 Main SEIN dataset: ecf_zz_sein

SEIN-level file, with variables aggregated from the establishment level.

Record identifier: SEIN YEAR QUARTER

Sort order: SEIN YEAR QUARTER

File indexes: none

Entity "firm"

Unique Entity Key SEIN

Note that SEIN is unique within any given time period across all states, but may not be uniquely identify an entity over time within a state, as the underlying UI account numbers can and do get re-used.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
1=UI only,2=202 only,3=both	SOURCE	00114	3	N
Best SEIN UI Employment	EMP1_UI	00044	4	N
Best SEIN UI Employment	EMP2_UI	00048	4	N
Best SEIN UI Employment	EMP3_UI	00052	4	N
Continuous Time YEAR QUARTER	YR_QTR	00301	6	A/N
ES202 FIPS State SS	ES_STATE	00307	2	A/N
Emp Mode Cleaned County	MODE_ES_COUNTY_EMP	00354	3	A/N
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00357	9	A/N
Emp Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY_EMP	00426	3	A/N
Emp Mode Cleaned GEO COUNTY	MODE_LEG_SUBCTYGEO_EMP	00439	10	A/N
Emp Mode Cleaned GEO MSAPMSA	MODE_LEG_MSAPMSA_EMP	00411	8	A/N
Emp Mode Cleaned GEO STATE	MODE_LEG_STATE_EMP	00421	2	A/N
Emp Mode Cleaned GEO WIB	MODE_LEG_WIB_EMP	00397	6	A/N
Emp Mode Cleaned NAICS 1997	MODE_ES_NAICS_ESO1997_EMP	00366	6	A/N
Emp Mode Cleaned NAICS 1997	MODE_ES_NAICS_FNL1997_EMP	00378	6	A/N
Emp Mode Cleaned NAICS 2002	MODE_ES_NAICS_ESO2002_EMP	00372	6	A/N
Emp Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNL2002_EMP	00384	6	A/N
Emp Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE_EMP	00390	1	A/N
Emp Mode Cleaned SIC	MODE_ES_SIC_EMP	00350	4	A/N
First Quarter SEIN on 202	MULTI_FIRST_QUARTER	00090	3	N
First Year SEIN on 202	MULTI_FIRST_YEAR	00087	3	N
MULTI ever ES202 wages	EVER_WAGES	00096	3	N
MULTI ever has ES202 month 1 employment	EVER_EMP1	00099	3	N
MULTI ever has ES202 month 2 employment	EVER_EMP2	00102	3	N
MULTI ever has ES202 month 3 employment	EVER_EMP3	00105	3	N
Missing Value	MODE_ES_COUNTY_EMP_MISS	00226	3	N
Missing Value	MODE_ES_COUNTY_MISS	00148	3	N
Missing Value	MODE_ES_EIN_EMP_MISS	00232	3	N
Missing Value	MODE_ES_EIN_MISS	00154	3	N
Missing Value	MODE_ES_NAICS_ESO1997_EMP_MISS	00214	3	N
Missing Value	MODE_ES_NAICS_ESO1997_MISS	00136	3	N
Missing Value	MODE_ES_NAICS_ESO2002_EMP_MISS	00217	3	N
Missing Value	MODE_ES_NAICS_ESO2002_MISS	00139	3	N
Missing Value	MODE_ES_NAICS_FNL1997_EMP_MISS	00220	3	N
Missing Value	MODE_ES_NAICS_FNL1997_MISS	00142	3	N
Missing Value	MODE_ES_NAICS_FNL2002_EMP_MISS	00223	3	N
Missing Value	MODE_ES_NAICS_FNL2002_MISS	00145	3	N
Missing Value	MODE_ES_OWNER_CODE_EMP_MISS	00229	3	N
Missing Value	MODE_ES_OWNER_CODE_MISS	00151	3	N
Missing Value	MODE_ES_SIC_EMP_MISS	00211	3	N
Missing Value	MODE_ES_SIC_MISS	00133	3	N
Missing Value	MODE_LEG_COUNTY_EMP_MISS	00244	3	N
Missing Value	MODE_LEG_COUNTY_MISS	00166	3	N
Missing Value	${\tt MODE_LEG_MSAPMSA_EMP_MISS}$	00238	3	N
Missing Value	${\tt MODE_LEG_MSAPMSA_MISS}$	00160	3	N

 $LEHD ext{-}OVERVIEW ext{-}S2004$

Revision: 219

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Missing Value	MODE_LEG_STATE_EMP_MISS	00241	3	N
Missing Value	MODE_LEG_STATE_MISS	00163	3	N
Missing Value	MODE_LEG_SUBCTYGEO_EMP_MISS	00247	3	N
Missing Value	MODE_LEG_SUBCTYGEO_MISS	00169	3	N
Missing Value	MODE_LEG_WIB_EMP_MISS	00235	3	N
Missing Value	MODE_LEG_WIB_MISS	00157	3	N
Number of Establishments	NUM_ESTABS	00016	4	N
Original UI Payroll Info W1	PAYROLL	00077	5	N
Quarter QQ	QUARTER	00074	3	N
Quarters Away Data Found	MODE_ES_COUNTY_EMP_FLAG	00265	3	N
Quarters Away Data Found	MODE_ES_COUNTY_FLAG	00187	3	N
Quarters Away Data Found	MODE_ES_EIN_EMP_FLAG	00271	3	N
Quarters Away Data Found	MODE_ES_EIN_FLAG	00193	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO1997_EMP_FLAG	00253	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO1997_FLAG	00175	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO2002_EMP_FLAG	00256	3	N
Quarters Away Data Found	MODE_ES_NAICS_ESO2002_FLAG	00178	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL1997_EMP_FLAG	00259	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL1997_FLAG	00181	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL2002_EMP_FLAG	00262	3	N
Quarters Away Data Found	MODE_ES_NAICS_FNL2002_FLAG	00184	3	N
Quarters Away Data Found	MODE_ES_OWNER_CODE_EMP_FLAG	00268	3	N
Quarters Away Data Found	MODE_ES_OWNER_CODE_FLAG	00190	3	N
Quarters Away Data Found	MODE_ES_SIC_EMP_FLAG	00250	3	N
Quarters Away Data Found	MODE_ES_SIC_FLAG	00172	3	N
Quarters Away Data Found	MODE_LEG_COUNTY_EMP_FLAG	00283	3	N
Quarters Away Data Found	MODE_LEG_COUNTY_FLAG	00205	3	N
Quarters Away Data Found	MODE_LEG_COUNTI_FEAG MODE_LEG_MSAPMSA_EMP_FLAG	00277	3	N
Quarters Away Data Found	MODE_LEG_MSAPMSA_FLAG MODE_LEG_MSAPMSA_FLAG	00199	3	N
Quarters Away Data Found	MODE_LEG_MSAFMSA_FLAG MODE_LEG_STATE_EMP_FLAG	00280	3	N
Quarters Away Data Found		00202	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_STATE_FLAG	00202	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_SUBCTYGEO_EMP_FLAG	00280	3	N
Quarters Away Data Found Quarters Away Data Found	MODE LEG WIR EMP. ELAG	00208	3	N
Quarters Away Data Found Quarters Away Data Found	MODE_LEG_WIB_EMP_FLAG	00196	3	N
Random sample selector for SEIN	MODE_LEG_WIB_FLAG	00190	8	N
SEIN 202 Employment Month 1	SAMPLE_SEIN		4	
1 0	SEIN_EMP1	00032	4	N
SEIN 202 Employment Month 2	SEIN_EMP2	00036		N
SEIN 202 Employment Month 3	SEIN_EMP3	00040	4	N
SEIN 202 Wages	SEIN_WAGES	00082	5	N
SEIN Best UI/202 Month 1, Employment	SEIN_BEST_EMP1	00056	4	N
SEIN Best UI/202 Month 2, Employment	SEIN_BEST_EMP2	00060	4	N
SEIN Best UI/202 Month 3, Employment	SEIN_BEST_EMP3	00064	4	N
SEIN Best UI/202 Payroll	SEIN_BEST_WAGES	00128	5	N
SEIN UI Wages	WAGES_UI	00123	5	N
SEIN ever multi unit	EVER_MULTI	00093	3	N
SEIN ever on 202	EVER_202	00108	3	N
SEIN ever on UI	EVER_UI	00111	3	N
SEIN in ES202	IN_202	00120	3	N
SEIN in UI	IN_UI	00117	3	N
SEIN w/2+ records on 202	MULTI_UNIT	00068	3	N
State Employer ID Number	SEIN	00289	12	A/
JI Employment B	SEINSIZE_B	00028	4	1
JI Employment E	SEINSIZE_E	00024	4	1
JI Employment M	SEINSIZE_M	00020	4	N
Jnit Mode Cleaned County	MODE_ES_COUNTY	00313	3	Α/
Jnit Mode Cleaned EIN	MODE_ES_EIN	00316	9	A/
Jnit Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY	00423	3	A/
Unit Mode Cleaned GEO COUNTY	MODE_LEG_SUBCTYGEO	00429	10	A/a
Jnit Mode Cleaned GEO MSAPMSA	MODE_LEG_MSAPMSA	00403	8	A/
Unit Mode Cleaned GEO STATE	$MODE_LEG_STATE$	00419	2	A/:
Unit Mode Cleaned GEO WIB	MODE_LEG_WIB	00391	6	$\dot{A}/1$
			6	A/I

LEHD-OVERVIEW-S2004Page~86

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Unit Mode Cleaned NAICS 1997	MODE_ES_NAICS_FNL1997	00337	6	A/N
Unit Mode Cleaned NAICS 2002	MODE_ES_NAICS_ESO2002	00331	6	A/N
Unit Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNL2002	00343	6	A/N
Unit Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE	00349	1	A/N
Unit Mode Cleaned SIC	MODE_ES_SIC	00309	4	A/N
Weight $sum(B_UI) = sum(month1_BLS)$	QWI_UNIT_WEIGHT	00000	8	N
Year YYYY	YEAR	00071	3	N

Auxiliary SEINUNIT T26 dataset: ecf_zz_seinunit_t26 $\overline{3.3.5}$

T26 variables associated with the SEINUNIT-level file. Note that as of the S2004 version, only California (CA) has such files.

Record identifier: SEIN SEINUNIT YEAR QUARTER

Sort order: SEIN SEINUNIT YEAR QUARTER

File indexes: none

Entity "establishment" or SESA

Unique Entity Key SEIN SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
0=ok,1=not found,2+found off qtr	ES_EIN_MISS	00024	8	N
Cleaned EIN	ES_EIN	00072	9	A/N
EIN in known IRD	VALID_EIN	00032	8	N
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00090	9	A/N
Letters a-z,A-Z in EIN	EIN_BAD	00000	8	N
Original ES202 EIN	EIN	00063	9	A/N
Problem with EIN	EIN_DEFECT	00008	8	N
Quarter QQ	QUARTER	00043	3	N
Quarters Away EIN data found	ES_EIN_FLAG	00016	8	N
State Employer ID Number	SEIN	00046	12	A/N
State UI Reporting Unit Number	SEINUNIT	00058	5	A/N
Unit Mode Cleaned EIN	MODE_ES_EIN	00081	9	A/N
Year YYYY	YEAR	00040	3	N

Page~88LEHD-OVERVIEW-S2004

3.3.6 Auxiliary SEIN T26 dataset: ecf_zz_sein_t26

T26 variables associated with the SEIN-level file. Note that as of the S2004 version, only California (CA) has such files.

Record identifier: SEIN YEAR QUARTER

Sort order: SEIN YEAR QUARTER

File indexes: none

Entity "firm"

Unique Entity Key SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00027	9	A/N
Quarter QQ	QUARTER	00003	3	N
State Employer ID Number	SEIN	00006	12	A/N
Unit Mode Cleaned EIN	MODE_ES_EIN	00018	9	A/N
Year YYYY	YEAR	00000	3	N

LEHD-OVERVIEW-S2004 Page 89

Revision: 219

3.3.7 Details on variables

sein Variables read in from the ES202 yearly files.

12 digit firm identifier (first 2 digits are the state FIPS code)

year

quarter

seinunit 5 digit code identifying the establishment. Generally used in combination with the SEIN to uniquely identify an establishment. The identifier itself is only unique within a firm or SEIN.

owner_code see ES_OWNER_CODE

EIN

county

SIC

NAICS

empl_month1

 $empl_month2$

 $empl_month3$

total_wages End of variables read in from the ES202 yearly files.

Sein_bad 0 = SEIN contains only characters 0-9

1 = SEIN contains a character outside the above range

Ein_bad 0 = EIN contains only characters 0-9

1 = EIN contains a character outside the above range

Valid_ein 0 = first 2 digits of EIN do not represent a valid IRS Revenue district code

1 =first 2 digits are valid

 $\mathbf{Ein_defect}$ 0 = no defect found

- 1 = EIN it is all nines or all zeros
- 2 = ein_bad=1, EIN contains characters outside the range 0-9
- $3=\mathrm{EIN}$ is a 7 digit or less number. An EIN must be at least eight characters
- 4 = valid_ein=0, the first two digits of the EIN do not represent a valid IRS Revenue district code

Sic_invalid 0 = SIC is OK

- 1 = SIC not valid
- 2 =first 2 digits valid, last 2 digits imputed
- 3 =first 3 digits valid, last digit imputed

Page~90

NUM_RECORDS 1-N = the number of records for each SEIN in a given year and quarter

All_miss_(pay,emp1,emp2,emp3,sic,county) 0 = at least one or more subunits has data 1 = all subunits have missing data

num_estabs 1-N = the number of establishments for each SEIN in a given year and quarter

 $\mathbf{multi_unit}$ 0 = not a multi unit 1 = multi unit

impute_(wage,emp1,emp2,emp3,sic,county) 0 = data not available or imputation unnecessary 1 = data available in master record and no data in subunits

 $no_{-}(wages,emp1,emp2,emp3,sic,county)$ 0 = data available in either master record or subunits 1 = no data in either master record or subunits

master_(wage,emp1,emp2,emp3,sic,county) Information contained in the master record is stored here

```
seinunit_type 0 = \text{seinunit}="00000"

1 = \text{seinunit} \sim ="00000"
```

seinsize_m variables read in from the UI SEIN YEAR QUARTER summary file.

Count of PIK level wage records that appear at an SEIN in a given YEAR QUARTER.

seinsize_b Count of PIK level wage records that appear at an SEIN in both the current and previous YEAR QUARTER

seinsize_e Count of PIK level wage records that appear at an SEIN in both the current and subsequent YEAR QUARTER.

Payroll Sum of earnings for PIK level wage records at the SEIN in a given YEAR QUARTER.

ever_(multi,wages,emp1,emp2,emp3) 0 = the SEIN never reports data on the ES202

1 =the SEIN is a multi unit at some time or reports payroll or employment at some time during the observed period on the ES202.

sein_(emp1,emp2,emp3,wages) SEIN level totals for payroll and employment from the ES202

multi_first_year The first year when an SEIN appears as a multi unit on the ES202

multi_first_quarter The first quarter when an SEIN appears as a multi unit on the ES202

 in_UI 0 = SEIN is not on the UI in a given year and quarter 1 = SEIN appears on the UI in given year and quarter

in_202 0 = SEIN is not on the ES202 a given year and quarter 1 = SEIN appears on the ES202 in a given year and quarter

LEHD-OVERVIEW-S2004 Revision: 219

```
source 1 = UI only
```

- 2 = ES202 only
- 3 = both UI and ES202

ever_202 0 = not on ES202

1 = SEIN appears on the ES202 at some time during observed period

yr_qtr A 6 character sequential year variable. Format is YYYY:Q. A 4 digit year, a colon, and a 1 digit quarter.

emp(1,2,3)_UI Attempt to create the best possible approximation of ES202 employment and payroll using UI data.

```
Emp1_UI = seinsize_b if available, then seinsize_e, and finally seinsize_m.
```

Emp2_UI = seinsize_b if available, then seinsize_e, and finally seinsize_m.

Emp1_UI = seinsize_e if available, then seinsize_b, and finally seinsize_m.

best_(wages,emp1,emp2,emp3) My best estimate of payroll and employment for a subunit using as much information available in the UI and ES202. I use both contemporaneous information and information about the firm in other years and quarters. If information is available in the ES202 then that data takes precedence over information in the UI.

best_flag NOTE: The best_flag variable when combined with the structure_fix variable can be used to identify the type of edits and data source of the best_xx variables.

0 = no wage or employment information on the ES202 or UI

In both UI and ES202 $\,1=\mathrm{SU}$, ES202 wages, UI employment is used $2=\mathrm{SU}$, UI wages, ES202 employment is used $3=\mathrm{SU}$, ES202 wages and employment are used $4=\mathrm{SU}$, UI wages and employment are used

In ES202 only 5 = SU, ES202 wages and employment are used

In UI only 6 = SU, UI wages and employment are used

In both UI and ES202 7 = MU, ES202 wages, UI employment allocated based on ES202 wages 8 = MU, UI payroll allocated based on ES202 employment, ES202 employment is used 9 = MU, ES202 wages and employment are used 10 = MU, UI payroll and employment allocated equally across all establishments

In ES202 only 11 = MU, ES202 wages and employment are used In UI only for multi-units does not exist

$info_{-}202$ 0 = no ES202 info

- 1 = only wages available on ES202
- 2 = only employment available on ES202
- 3 = both wages and employment available on ES202

$noemp_200 = positive ES202 employment$

1 = employment is not 0 on the ES202

emp_202_miss 0 = not in the ES202 and non-missing ES202 employment

1 = in the ES202 and all ES202 employment is missing.

special_handle 0 = no special handling required

- $1 = \text{in_UI}=1$ and $\text{in_202}=0$ and $\text{ever_multi}=1$
- $2 = \text{in_UI}=0$ and $\text{in_202}=1$ and $\text{impute_data}=1$
- 3 = in_UI=1 and in_202=1 and no_data=1 and multi_unit=1
- $4 = \text{in_UI}=1$ and $\text{in_202}=1$ and $\text{impute_data}=1$

 no_get_data 0 = get_XX=1 for at least one variable

 $1 = \text{get}_XX = 0$ for all variables

 $data_avail$ 0 = no data available

 $1 = \text{in}_{2}02=1$ and some subunit data available that period

 $impute_data$ 0 = no allocation of master to subunit that period

1 = allocation of master to subunit that period

 $\mathbf{no}_{-}\mathbf{data}$ 0 = data available

1 = no data in master or subunit available that period

get_(wages,emp1,emp2,emp3) 0 = special_handle=0 or special_handle=1 and no subunit wages available in other periods

1 = special_handle;0 and subunit data is available in other periods

(wages,emp1,emp2,emp3)_202 Renamed sein_XX variables on the special_handle_06.sas7bdat dataset. This is necessary in the next program when I match a record with missing subunit information the to another record in another year and quarter.

Wages_UI Payroll is renamed similarly to emp(1,2,3,)_UI variables.

qtime_master Continuous quarter time from 1985 quarter 1 for the record for which I am trying to determine subunit structure.

qtime_first The first quarter in continuous time that an SEIN appears as a multi unit

year_found The closest year that contains subunit structure

quarter_found The closest quarter that contains subunit structure

Stop 0 = record not found

1 = record with subunit structure found

best_(wages,emp1,emp2,emp3) Update of original values computed in 05_best_vars.sas. My best estimate of payroll and employment for a subunit using as much information available in the UI and ES202. I use both contemporaneous information and information about the firm in other years and quarters. If information is available in the ES202 then that data takes precedence over information in the UI.

sein_best_(wages, emp1, emp2, emp3) SEIN YEAR QUARTER summaries of the best_XX variables.

Revision: 219

structure_fix NOTE: The best_flag variable when combined with the structure_fix variable can be used to identify the type of edits and data source of the best_xx variables.

- 0 = record not selected for structure imputation
- 1 = record selected for structure imputation

leg_state See the LEG documentation for more information on these variables

leg_county

leg_wib

leg_msapmsa

leg_geo_qual

leg_longitude

leg_latitude

leg_flag_geo

es_state FIPS code of the state

es_ein cleaned SEINUNIT EIN

9 digit federal firm identifier. Generally not unique within a state. There may be multiple state level firms for a given federal firm identifier.

es_county cleaned SEINUNIT county

3 digit FIPS county code.

es_naics cleaned SEINUNIT NAICS

es_owner_code cleaned SEINUNIT ownership code

- 1 = Federal Government
- 2 = State Government
- 3 = Local Government
- 5 = Private Sector

es_sic cleaned SEINUNIT SIC

es_(sic, naics, county, owner_code, ein)_miss 0 = Variable is not missing

- 1 =Variable is missing before using information from other quarters.
- 2 =Variable is not missing after search for off quarter information.

mode_es_XXX_emp+4 = Variable is missing, filled with the SEIN employment weighted mode value.

es_(sic, naics, county, owner_code, ein)_flag Missing = No information in other quarters

- 0 = Variable is not missing in current quarter
- $z_0 = 0$ quarter after the current quarter where replacement value is found
- j0 =quarter before the current quarter where replacement value is found

LEHD-OVERVIEW-S2004 Revision: 219

mode_(es_sic, es_naics, es_county, es_owner_code, es_ein, leg_wib, leg_msapmsa, leg_state, leg_county, leg_subctygeo) The modal value of the variable in an SEIN YEAR QUARTER (unit weighted)

mode_(es_sic, es_naics, es_county, es_owner_code, es_ein, leg_wib, leg_msapmsa, leg_state, leg_county, leg_subctygeo)_emp The modal value of the variable in an SEIN YEAR QUARTER (employment weighted)

Place SIC, NAICS, COUNTY, ownership code, EIN and LEG SEIN level variables in arrays

 $mode_es_s(sic, naics, county, owner_code, ein)_miss 0 = Variable is not missing$

- 1 = Variable is missing before using information from other quarters.
- 2 =Variable is not missing after search for off quarter information.
- 6 = Variable is missing, filled with imputed value. Currently only used for SIC.
- 11 = variable missing, but value set to 5. Currently only used for owner_code. Assume records with missing ownership codes are private firms.

mode_es_(sic, naics, county, owner_code, ein)_emp_miss 0 = Variable is not missing

- 1 = Variable is missing before using information from other quarters.
- 2 = Variable is missing, filled with off quarter information.
- 5 = Variable is missing, filled with the corresponding unit weighted value
- 6 = Variable is missing, filled with imputed value. Currently only used for SIC.
- 11 = variable missing, but value set to 5. Currently only used for owner_code. Assume records with missing ownership codes are private firms.

- 0 = Variable is not missing in current quarter
- $\dot{b}_{c}0 = 0$ quarter after the current quarter where replacement value is found
- io = quarter before the current quarter where replacement value is found

SEIN mode variables missing values are replaced. Missing codes are adjusted. See program 13 for an explanation of valid values.

SEINUNIT mode variables missing values are replaced. Missing codes are adjusted. See program 10 for an explanation of valid values.

es_sic_div SIC divisions (A, B, C, ..., Z)

ES_SIC_2 First 2 digits of the 4 digit SIC

ES_SIC_3 First 3 digits of the 4 digit SIC

ES_NAICS_2 First 2 digits of the 6 digit NAICS

ES_NAICS_3 First 3 digits of the 6 digit NAICS

Only temporary variables used in the calculation of the weights are created. qwi_unit_weight = Final ECF weight. See technical documentation for the weights for detailed information.

Suppressed for confidentiality

No new variables are created.

DATE_(SEIN, SEINUNIT)_FUZZ SAS date value for when the fuzz factor was created.

LEHD-OVERVIEW-S2004 Page 95

UPDATE_NUMBER_(SEIN, SEINUNIT) Sequential update number. The first time the ECF is created all fuzz factors receive a value of 0. The value is incremented by 1 each time any fuzz factors are added to the master file.

NAICS CODES ON THE ECF

Enhanced North American Industry Coding System (NAICS) variables are available on all ECF since February 2003. The variable list below shows that there are 75 new variables for NAICS alone. The variables can be differentiated mainly by the source(s) and coding system used in their creation. There are two sources of data; the ES202 and the Longitudinal Data Base (LDB) from the BLS: and two coding systems; NAICS1997 and NAICS2002 (see the Census web site for more info.). Every NAICS variable uses at least one source and one coding system.

The ESO and FNL variables are of primary importance to the user community. The ESO variables use ONLY information from the ES202 and ignore any information that may be available on the LDB (see Section 3.4.2 for some analysis on why this may be preferred). The FNL variables incorporate information from both the ES202 and the LDB, with the LDB being the dominant source. The ES_NAICS_FNL1997 and ES_NAICS_FNL2002 should be used to create the QWI estimates. Neither the ESO and the FNL variables contain missing values.

3.4.1 A note on naming conventions

The variable naming conventions used for internal LEHD files, from which the RDC version of the ECF is derived, stems from the early days of the LEHD program in 1999, and the ES-202 file layout at the time. Since then, the BLS and its partners have implemented a name change for NAICS-related variables (see ES-202 Technical Memorandum No. S-02-01):

- NAICS → NSTA (NAICS-SIC Treatment of Auxiliaries)
- AUXNAICS → NAICS (official NAICS coding)

At LEHD, the internal ES202 variable naming scheme for NAICS/NAICS_AUX remains unchanged for compatibility reasons, and this naming scheme carries through into the ECF. Please keep this in mind while reading this document, and while using the ECF.

LDB versus LEHD NAICS backcoding 3.4.2

The LDB algorithm is to some extent a black box and testing has shown that it does a relatively poor job of capturing firm industry changes that occurred during the 1990's. In fact, the LDB appears to be a simple backfill that does not take into account a firm's entire SIC history.

Although some of the SIC changes over time may be spurious, a firm's SIC code history contains valuable information that we have attempted to preserve in our imputation algorithm. Overall, the effect of the different approaches is relatively small, since very few firms change industry, in particular relative to the proportion of firms that change geography.

In the following, we present a summary of research done on the ESO vs. FNL NAICS codes.

The NAICS_LDB variable is used for about 85% of the records for Illinois, the rest are filled with information from the ES202 (not sure why only 85% of the records on our ES202 files are in the LDB. The results weighted by employment are about the same suggesting that activity was not a criterion for being included on the LDB). First and not surprisingly, in later years and quarters (1999+) when NAICS is actively coded by the states, the codes look almost identical when available.

Second, there is little variation in the LDB NAICS codes over time compared with SIC. Among all of the active SEIN SEINUNITs over the period, a little over 8% experience at least one SIC change compared with about 1.5% on the LDB (almost all of these are 1999+). While this is not entirely unexpected, it is

LEHD-OVERVIEW-S2004 Page 96 Revision: 219

something to keep in mind when comparing NAICS_FNL versus SIC or NAICS_ESO employment totals. Many of these changes in industry appear to be real and are not captured on the LDB.

One effect of this is that as we go back in time a larger portion of employment can be found in NAICS_FNL codes that are different than one would expect given the SIC code on the ECF. For example, in 1990 about 13% of employment is in a NAICS_FNL code that is different than what we would expect based on the SIC. By 2001 this number falls to 3%. The ES202 based NAICS variable does a better job tracking SIC, since more SIC information is used in putting it together (about 3% consistently over the period).

The main source of the discrepancy is due to entities that experience a change in their SIC code prior to 2000. The LDB appears to ignore this change, while the ESO NAICS variable uses an SIC based impute for these SEINUNITS. The result is a series that exhibits similar patterns of change over time as SIC, while still preserving the value added in the NAICS codes for entities that did not experience a change.

Also, users should keep in mind that for early years (†1997) some of the NAICS industries have yet to come into existence. I have no estimates on the prevalence of this problem.

3.4.3 Variable List

Variable Name	Source	Notes
es_naics_aux1997	ES202 NAICS AUX variable	BLS coding of aux estabs
es_naics_aux1997_flag		
es_naics_aux1997_miss		
es_naics_aux1997_src		
es_naics_aux2002		
es_naics_aux2002_flag		
es_naics_aux2002_miss		
es_naics_aux2002_src		
es_naics_eso1997	ES202 NAICS AUX, NAICS, SIC	Only ES202 info used
es_naics_eso1997_miss		
es_naics_eso1997_src		
es_naics_eso2002		
es_naics_eso2002_miss		
es_naics_eso2002_src		
es_naics_fnl1997	BLS LDB and ESO Input vars.	All industry info used
es_naics_fnl1997_2		
es_naics_fnl1997_3		
es_naics_fnl1997_4		
es_naics_fnl1997_5		
es_naics_fnl1997_miss		
es_naics_fnl1997_src		
es_naics_fnl2002	BLS LDB and ESO input vars.	All industry info is used
es_naics_fnl2002_2		
es_naics_fnl2002_3		
es_naics_fnl2002_4		
es_naics_fnl2002_5		
es_naics_fnl2002_miss		
es_naics_fnl2002_src		
es_naics_imp1997	ES202 SIC code	Impute using only SIC
es_naics_imp1997_miss		
es_naics_imp1997_src		
es_naics_imp2002		
es_naics_imp2002_miss		

LEHD-OVERVIEW-S2004

CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

Variable Name	Source	Notes
es_naics_imp2002_src		
es_naics_ldb1997	BLS LDB NAICS variable	
es_naics_ldb1997_flag		
es_naics_ldb1997_miss		
es_naics_ldb1997_src		
es_naics_ldb2002		
es_naics_ldb2002_flag		
es_naics_ldb2002_miss		
es_naics_ldb2002_src		
es_naics1997	ES202 NAICS Only	
es_naics1997_flag	-	
es_naics1997_miss		
es_naics1997_src		
es_naics2002		
es_naics2002_flag		
es_naics2002_miss		
es_naics2002_src		
mode_es_naics_eso1997	Mode of ESO SEINUNIT var	
mode_es_naics_eso1997_emp		
mode_es_naics_eso1997_emp_flag		
mode_es_naics_eso1997_emp_miss		
mode_es_naics_eso1997_flag		
mode_es_naics_eso1997_miss		
mode_es_naics_eso2002		
mode_es_naics_eso2002_emp		
mode_es_naics_eso2002_emp_flag		
mode_es_naics_eso2002_emp_miss		
mode_es_naics_eso2002_flag		
mode_es_naics_eso2002_miss		
mode_es_naics_fnl1997	Mode of FNL SEINUNIT var	
mode_es_naics_fnl1997_emp		
mode_es_naics_fnl1997_emp_flag		
mode_es_naics_fnl1997_emp_miss		
mode_es_naics_fnl1997_flag		
mode_es_naics_fnl1997_miss		
mode_es_naics_fnl2002		
mode_es_naics_fnl2002_emp		
mode_es_naics_fnl2002_emp_flag		
mode_es_naics_fnl2002_emp_miss		
mode_es_naics_fnl2002_flag		
mode_es_naics_fnl2002_miss		

3.4.4 Coding of MISS and SRC

Each new NAICS variable has several associated variables of which the miss and src variable are the most important.

Page 98 LEHD-OVERVIEW-S2004

3.4.4.1 MISS Variable Codes

If information from another period is used, the flag variable reports how many quarters away the NAICS value was found. Values greater than six should only appear in SEINUNIT level variables. If NAICS is missing for all quarters, then the SEINUNIT value has been filled with the SEIN value. The SEINUNIT codes represent the SEIN value +5.

Table 3.6: MISS Variable Codes

- 0 = Valid value available in that period
- 1 = Missing
- 1.5 = (1999 and earlier only) Filled using impute based on SIC due to an SIC change over the period.
 - 2 = Filled using own code from another period
 - 3 = Filled from another source contemporaneously
 - 5 = Filled using the non-employ weight mode (SEIN mode var only)
 - 6 = Unconditionally imputed (SEIN mode var only)
 - 6 = NAICS imputed using SIC unconditional impute (SEIN mode var only)
 - 7 = Filled using the SEIN mode from another period (sic, fnl and eso vars only)
- 11 = Filled using unconditional impute of SEIN value (sic, fnl and eso vars only)

3.4.4.2 SRC Variable Codes

The ESO and FNL variables use the following source codes. If more detail is desired about the source of the NAICS code, the user must look to the SRC code for that source. For example, if the ESO source code for ES_NAICS_ESO1997 says NCS, then the actual SRC information will be found in ES_NAICS1997_SRC.

Table 3.7: SRC Variable: ESO, FNL

- AUX = Source is the ES202 NAICS AUX variable
- LDB = Source is the LDB NAICS variable
- NCS = Source is the ES202 NAICS variable
- SIC = Source is the ES202 SIC code

The AUX, LDB and standard NAICS codes have the following source variables.

Table 3.8: SRC Variable: AUX, LDB, NAICS

SIC = Source is the ES202 SIC code NO2 = Source is a NAICS 2002 Code N97 = Source is a NAICS 1997 Code

3.4.5 NAICS algorithm precedence ordering

Four basic sources of industry information are available on the ECF; NAICS, NAICS_AUX, SIC, and the NAICS_LDB. The NAICS, NAICS_AUX, and NAICS_LDB missing values were filled using the following

LEHD-OVERVIEW-S2004 Page 99

preference ordering. SIC is filled similarly, except miss=1.5 is not used and NAICS, not SIC, would be the basis for the impute when miss=3.

- 1. Valid 6 digit industry code (miss=0)
- 2. Imputed code based on first 3,4, or 5 digits when no valid six digit code is available in another period (miss=0)
- 3. Imputed code based on contemporaneous SIC if SIC changed prior to 2000 (miss=1.5)
- 4. Valid 6 digit code from another period (miss=2)
- 5. Valid code from another source (for example if NAICS1997 is missing, NAICS2002 or SIC may be available) (miss=3)
- 6. Use SEIN mode value (miss=5,7)
- 7. Unconditional impute (miss=6,11)

3.4.6 ESO and FNL variables

The ESO and FNL variables are made up of combinations of the various sources of industry information. The ESO variable uses the NAICS and NAICS_AUX variables as input. Information from the variable with the lowest MISS value is preferred although in case of a tie the NAICS_AUX value is used.

The FNL variable uses the ESO and LDB variables. Information from the variable with the lowest MISS value is preferred although in case of a tie the NAICS_LDB value is used. Keep in mind that although the source of an ESO or FNL variable may be equal to NCS, the actual source can only be ascertained by going back to the original.

3.4.7 Employment Flag Variable Codes

All current uses of the ECF have been forced to assume that employment and payroll information has been reported by the firm, although under certain conditions the ES202 processing specifications require imputation of missing values. The flag values below allow the user to determine when imputation has occurred.

The master record contains valuable information that has been preserved in the master_empl_month1_flg -master_total_wages_flg variables. For example, one should theoretically be able to distinguish 0 prorated codes from 0 unknowns by looking at multi units with masters that reported (code=1) and subunits with a zero.

The following information stems from an email exchange between Kevin McKinney (U.S. Census Bureau) and George Putnam (Illinois) on 12/15/2003.

Employment Flag Variable Codes Prior to late 1995:

0 = unknown

1 = not imputed

2 = imputed (including prorated multiple worksite data)

Late 1995 or early 1996:

 $0 = prorated \ data \ (multiple \ worksites)$

1 = actual or not imputed data

2 = estimated data

1997 first quarter forward (ES202 processing manual, Appendix B):

Page 100

LEHD-OVERVIEW-S2004

Revision: 219

Blankreported data

> Rreported data =

Aestimated from CES report

Cchanged (re-reported)

Dreported from missing data notice

Eimputed single unit employment or imputed worksite employment

prorated from imputed parent record

hand-imputed (not system generated) Η

=late reported (overrides prior imputation)

Mmissing data =

N zero-filled pending resolution of long-term delinquent reporter

Pprorated from reported master to worksite

Saggregated master from reported MWR or EDI data

Westimated from wage record employment

X non-numeric employment zero-filled pending further action

3.4.8 Multi-Unit Code or MEEI

The MULTI-UNIT variable on the ECF is determined by counting the number of SEINUNIT records for a given SEIN once the master records have been removed. However, some multiunit firms refuse to report detailed information for their sub-units and appear as single units on the ECF. The table below provides an estimate of the magnitude of multiunit firms refusing to report detailed unit information using data from Illinois.

- 1/1	TH	[T]	TI	$_{ m TTV}$

MULTI_UNIT_CODE	0	1
1	1,483,808	0
2	1	0
3	120	155859
4	5808	0
5	0	33
6	13899	0

Prior to 1997 (ES202 processing manual sent from George Putnam):

1 Single establishment unit

2 Multi-unit master record

3 Subunit establishment level record for a multi-unit employer

Multi-establishment employer reporting as a single unit due to 4

unavailability of data, including refusals

A subunit record that actually represents a combination of estab-5 lishments; finer level breakouts are not yet available

6 Known multi establishment employer reporting as a single unit and not solicited for disaggregation because of small employment (< 10) in all secondary establishments combined

1997 first quarter forward (ES202 processing manual, Appendix B):

- 1 = Single establishment unit
- 2 = Multi-unit master record
- 3 = Subunit establishment level record for a multi-unit employer
- 4 = Multi-establishment employer reporting as a single unit due to unavailability of data, including refusals
- 5 = A subunit record that actually represents a combination of establishments; finer level breakouts are not yet available
- 6 = Known multi establishment employer reporting as a single unit and not solicited for disaggregation because of small employment (; 10) in all secondary establishments combined

3.4.9 Auxiliary Code

This variable gives detailed information about firm locations that do not directly engage in production related activities.

Prior to 1997 (ES202 processing manual sent from George Putnam):

- 0 = Unknown
- 1 = Central administrative office
- 2 = Performs research, development or testing services
- 3 = Provides storage or warehouse services
- 5 Does not provide auxiliary services, it is an operating establishment
- 9 = Performs auxiliary services that are not described above

1997 first quarter forward (ES202 processing manual, Appendix B):

- 0 = Auxiliary status not known
- 1 = Central administrative office
- 2 = Performs research, development or testing services
- 3 = Provides storage or warehouse services
- 5 = Does not provide auxiliary services, it is an operating establishment
- 6 = Headquarters
- 7 = Administrative, Other than Headquarters
- 9 = Performs auxiliary services that are not described above

Page 102 LEHD-OVERVIEW-S2004

3.4.10 Summary information on datasets

Table 3.9: File information, by state , by group , for ECF $\,$

			Number of		Filesizes		
State		Group	datafiles	Records	(MB)	Start	End
Covered states			64	587,237,341	240,012.05	1989Q1	2004Q3
Alabama	AL	ecf	2	$3,\!426,\!165$	1,685.48	2001Q1	2004Q2
Arkansas	AR	ecf	2	954,157	452.49	2002Q3	2004Q1
California	CA	ecf	2	$99,\!129,\!182$	$46,\!282.81$	1991Q1	2003Q4
California	CA	ecft26	2	$99,\!129,\!182$	7,009.10	1991Q1	2003Q4
Colorado	CO	ecf	2	14,146,330	6,879.70	1990Q1	2004Q1
Delaware	DE	ecf	2	1,416,157	652.81	1997Q1	2004Q1
Florida	FL	ecf	2	47,026,785	22,337.79	1989Q1	2004Q1
Iowa	IA	ecf	2	9,009,472	4,238.50	1990Q1	2004Q1
Idaho	ID	ecf	2	4,144,272	2,002.11	1991Q1	2004Q1
Illinois	IL	ecf	2	34,401,303	$16,\!368.45$	1990Q1	2004Q1
Indiana	IN	ecf	2	7,052,084	3,441.49	1998Q1	2004Q1
Kansas	KS	ecf	2	8,318,828	3,989.95	1990Q1	2004Q1
Kentucky	KY	ecf	2	2,601,098	$1,\!250.75$	2001Q1	2004Q1
Maryland	MD	ecf	2	$15,\!154,\!168$	$7,\!418.82$	1990Q1	2004Q1
Maine	ME	ecf	2	3,224,812	1,520.61	1996Q1	2004Q1
Minnesota	MN	ecf	2	12,615,016	$6,\!443.17$	1994Q3	2004Q3
Missouri	MO	ecf	2	18,680,950	8,929.59	1990Q1	2004Q1
Montana	MT	ecf	2	3,129,539	1,470.77	1993Q1	2004Q1
North Carolina	NC	ecf	2	21,788,368	10,261.29	1990Q1	2003Q4
North Dakota	ND	ecf	2	1,185,496	563.73	1998Q1	2004Q2
New Jersey	NJ	ecf	2	20,480,777	$9,\!808.47$	1995Q1	2004Q1
New Mexico	NM	ecf	2	4,869,480	$2,\!209.05$	1990Q1	2004Q1
Oklahoma	OK	ecf	2	3,836,973	1,809.45	1999Q1	2004Q1
Oregon	OR	ecf	2	11,116,430	$5,\!359.66$	1990Q1	2004Q1
Pennsylvania	PA	ecf	2	30,066,151	14,616.05	1991Q1	2004Q1
South Carolina	SC	ecf	2	5,673,122	2,835.70	1998Q1	2004Q3
Texas	TX	ecf	2	$51,\!261,\!545$	24,614.88	1990Q1	2004Q2
Virginia	VA	ecf	2	11,760,264	5,676.17	1995Q3	2004Q1
Vermont	VT	ecf	2	767,752	361.20	2000Q1	2004Q1
Washington	WA	ecf	2	20,776,265	$9,\!895.98$	1990Q1	2004Q1
Wisconsin	WI	ecf	2	$15,\!102,\!565$	7,288.20	1990Q1	2004Q1
West Virginia	WV	ecf	2	4,992,653	2,337.84	1990Q1	2004Q1

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3.5 HELPFUL PROGRAMS

The following programs might be found to be useful when using the data.

3.5.1 Combining regular ECF data with ECF T26 files

The following program was used to verify that the T26 data split from the ECF for California cleanly matches back on. It can be used by researches wishing to integrate the T26 into their ECF-based analytical files.

```
/* Time-stamp: <07/05/04 16:16:00 vilhuber> */
/* $Id: 02.04.combine_ecf.sas 125 2007-05-05 12:55:33Z vilhu001 $ */
%macro combine_ecf(state=,inlib=WORK,int26=WORK,incc=WORK);
libname INLIB "/mixedtmp/lehd/s2004/ecf/&state./";
libname INT26 "/mixedtmp/lehd/s2004/ecft26/&state./";
libname INCC "/mixedtmp/lehd3/s2004/ecfcc/&state./";
libname INPUTS (&inlib.,&int26,&incc.);
libname ORIG "/mixedtmp/lehd2/s2004_obsolete/ecf_commingled/&state./" access=readonly;
proc sort data= ORIG.ecf_&state._sein out=work.ecf_sein_orig(compress=yes);
by sein year quarter;
run:
data work.merged_sein(sortedby=sein year quarter);
merge INPUTS.ecf_&state._sein INPUTS.ecf_&state._sein_cc;
by sein year quarter;
run;
%if &int26^= %then %do;
  data work.merged_sein(sortedby=sein year quarter);
update work.merged_sein INPUTS.ecf_&state._sein_t26;
by sein year quarter;
  run;
                   %end:
proc contents data=work.ecf_sein_orig;
run:
proc contents data=work.merged_sein;
proc compare data=work.ecf_sein_orig briefsummary compare=work.merged_sein;
proc sort data= ORIG.ecf_&state._seinunit out= work.ecf_seinunit_orig(compress=yes);
by sein seinunit year quarter;
data work.merged_seinunit(sortedby=sein seinunit year quarter);
merge INPUTS.ecf_&state._seinunit INPUTS.ecf_&state._seinunit_cc ;
by sein seinunit year quarter;
run;
%if &int26^= %then %do:
  data work.merged_seinunit(sortedby=sein seinunit year quarter);
update work.merged_seinunit INPUTS.ecf_&state._seinunit_t26;
by sein seinunit year quarter;
  run:
                   %end;
```

Page 104 LEHD-OVERVIEW-S2004

```
proc contents data=work.ecf_seinunit_orig;
run;
proc contents data=work.merged_seinunit;
run;

proc compare data=work.ecf_seinunit_orig briefsummary compare=work.merged_seinunit;
run;

/* only relevant for CA */
//combine_ecf(state=ca, inlib=INLIB, int26=INT26, incc=INCC);
```

3.5.2 Selecting a random sample of establishments

The ECF files can be large, and researchers may wish to analyze only a random subsample of firms. The variables SAMPLE_SEIN and SAMPLE_SEINUNIT can be used to select a random sample of the ECF. To do this in a space-efficient way, the following code can be used as a template.

The code above uses a VIEW, which means the dataset is constructed on the fly as it is used in the analysis procedure. Although overall disk usage is not necessarily smaller when using random access (as the SAS regression procedure apparently does), it is still faster. For other processes using sequential access only, in particular simple DATA steps, a view will be space-efficient because only the relevant observations are streamed into any intermediate data files.

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$\overline{3.6}$ NOTES

• In the current (S2004) files, there are no es_galid or leg_galid variables on the NC and NM ECF_state_seinunit files. *Solution:* Use the GAL_state_xwlk_YYYY files if needing to link to the GAL.

Page 106 LEHD-OVERVIEW-S2004

Chapter 4. Employment History Files (EHF)

4.1 **OVERVIEW**

The Employment History Files (EHF) are designed to store the complete in-state work history for each individual that appears in the UI wage records. The EHF for each state contains one record for each employeeemployer combination—a job—in that state in each year. Both annual and quarterly earnings variables are available in the EHF. Individuals who are employed, but never have strictly positive earnings at their employing SEIN (a theoretical possibility) in a given year do not have a record in the EHF for that year. To facilitate analysis, the EHF data are restructured into another file containing one observation per job (PIK-SEIN combination), with all quarterly earnings and activity information available on that record. The restructured file is called the Person History File (PHF). It should be noted that the actual file structure is at the PIK-SEIN-SEINUNIT-YEAR level for the EHF, and at the PIK-SEIN-SEINUNIT level for the PHF. Although only one state (Minnesota) has non-zero values for SEINUNIT, this allows the file structure to be homogeneous across states. An active job within a quarter, the primary job-level economic activity measure, is defined as having strictly positive quarterly earnings for the individual-employer pair that define the job.

A time-series similar to the aggregated job data, but based on observed activity (positive employment) in the ES-202 records, is available and computed at the SEINUNIT level (Unit History File, UHF) and the SEIN level (SEIN History File, SHF).

Revision: 219

$\overline{4.2}$ INPUT FILES

4.2.1Wage records: UI

Wage records correspond to the report of an individual's UI-covered earnings by an employing entity, identified by a state UI account number (called the SEIN in the LEHD system). An individual's UI wage record is retained in the processing if at least one employer reports earnings of at least one dollar for that individual during the quarter. Thus, an in-scope job must produce at least one dollar of UI-covered earnings during a given quarter in the LEHD universe. Maximum earnings reported are defined in a specific state's unemployment insurance system, and observed top-coding varies across states and over time.

A record is completed with information on the individual's Social Security Number (later replaced with the PIK within the LEHD system), first name, last name, and middle initial. A few states include additional information: the firm's reporting unit or establishment (SEINUNIT), available for Minnesota, and a crucial component to the Unit-to-Worker impute described later; weeks worked, available for some years in Florida; hours worked, available for Washington and Minnesota state.

Current UI wage records are reported for the quarter that ended approximately six months prior to the reporting date at Census (the first day of the calendar quarter). Wage records are also reported for the quarter that the state considers "final" in the sense that revisions to its administrative UI wage record data base after that date are relatively rare. This quarter typically ends nine months prior to the reporting date. Historical UI wage records were assembled by the partner states from their administrative record backup systems.

4.2.2 Employer reports: ES-202

The employer reports are based on information from each state's Department of Employment Security. The data are collected as part of the Covered Employment and Wages (CEW) program, also known as the ES-202 program, which is jointly administered by the BLS and the Employment Security Agencies in a federal-state partnership. This cooperative program between the states and the federal government collects employment, payroll, and economic activity, and physical location information from employers covered by state unemployment insurance programs and from employers subject to the reporting requirements of the ES-202 system. The employer and work place reports from this system are the same as the data reported to the BLS as part of the Quarterly Census of Employment and Wages (QCEW), but are referred to in the LEHD system by their old acronym "ES-202." The universe for these data is a 'reporting unit,' which is the QCEW establishment—the place where the employees actually perform their work. Most employers have one establishment ('single-units'), but most employment is with employers who have multiple establishments ('multi-units'). One report per establishment per quarter is filed. These data are also used to compile the QCEW and the Business Employment Dynamics (BED) data at the BLS.

The information contained in the ES-202 reports has increased substantially over the years. Employers report wages subject to statutory payroll taxes on this form, together with some other information. Common to all years, and critical to LEHD processing, are information on the employer's identity (the SEIN), the reporting unit's identify (SEINUNIT), ownership information, employment on the 12th of each month covered by the quarter, and total wages paid over the course of the quarter. Additional information pertains to industry classifications (initially SIC, and later NAICS). Other information include the federal EIN, geography both at a high level (county or MSA) and low level (physical location street address and mailing address). A recent expansion of the standard report's record layout has increased the informational content substantially. The LEHD Infrastructure File system is, fundamentally, a job-based frame designed to be represent the universe of individual-employer pairs covered by state unemployment insurance system reporting requirements. Thus, the underlying data are wage records extracted from Unemployment Insurance (UI) administrative files from each LED partner state. In addition to the UI wage records, LED partner states also deliver an extract of the file reported to the Bureau of Labor Statistic's Quarterly Census of Employment and Wages (QCEW, formerly known as ES-202). These data are received by LEHD on a quarterly basis, with historical time series extending back to the early 1990s for many states.

Page 108 LEHD-OVERVIEW-S2004

4.3 DATA SET DESCRIPTIONS

4.3.1Naming scheme

All files start with ehf:

ehf_zz_controltotals.sas7bdat ehf_zz_phf.sas7bdat ehf_zz.sas7bdat ehf_zz_sein_employment.sas7bdat ehf_zz_shf.sas7bdat ehf_zz_uhf.sas7bdat ehf_zz_uniqpik.sas7bdat

ZZ stands for the state postal abbreviation. The main EHF file has no suffix, other files have a suffix. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

Data location 4.3.2

The files are stored in two main directories, with state-specific subdirectories:

ehf/ZZ/ for most files

No files in the EHF process contain Title 26 data. On the RDC network, the directory can be found under /mixed/lehd/current

LEHD-OVERVIEW-S2004

$\overline{4.3.3}$ **UI-based Output Files**

4.3.3.1 \mathbf{EHF}

The EHF is designed to store the complete in-state work history for each individual that appears in the UI wage records. The EHF for each state contains one record for each employee-employer combination in that state in each year. Every individual who is employed during a given year will then have one observation per employer for that year. Annual earnings and quarterly earnings variables are present on the file. The presence of positive quarterly earnings is used in the job flow analysis not only to compute earnings and payroll statistics but also to determine an individual's employment status each quarter.

The EHF (ehf_&state.) is organized by PIK-SEIN-SEINUNIT-YEAR. Note that all states except Minnesota (MN) have SEINUNIT='00000', so this reverts back to PIK-SEIN-YEAR for all states except MN.

Record identifier PIK-SEIN-SEINUNIT-YEAR

Sort order PIK-SEIN-SEINUNIT-YEAR

Entity Job

Unique Entity Key PIK-SEIN-SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Annual earnings	EARN_ANN	00003	5	N
Calendar year	YEAR	00000	3	N
Protected Identification Key	PIK	00028	9	A/N
Qtr 1 earnings	EARN1	00008	5	N
Qtr 2 earnings	EARN2	00013	5	N
Qtr 3 earnings	EARN3	00018	5	N
Qtr 4 earnings	EARN4	00023	5	N
Source of data (FIPS state code/0=Fed)	SOURCE	00037	2	A/N
State Employer Identification Number	SEIN	00041	12	A/N
State UI Reporting Unit Number	SEINUNIT	00053	5	A/N
Type of source	SOURCETP	00039	2	$\dot{A/N}$

LEHD-OVERVIEW-S2004 Page 110 Revision: 219

4.3.3.2 (proto-)PHF

The proto PHF is a reformatted version of the EHF. Rather than having one record per year, the PHF is organized by "job", or unique employee-employer combination, identified by PIK-SEIN(-SEINUNIT), with cmplete historical arrays for earnings and employment status. It is not to be confused with the PHF_B of the QWI sequence, which is augmented with information from the U2W process for non-MN states.

The PHF (ehf_&state._phf) is organized by PIK-SEIN-SEINUNIT. Note that all states except MN have SEINUNIT='00000', so this reverts back to PIK-SEIN for all states except MN.

Record identifier PIK-SEIN-SEINUNIT

Sort order PIK-SEIN-SEINUNIT

Entity Job

Unique Entity Key PIK-SEIN-SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Binary workhistory00111000 1=employed	WORK	00264	80	A/N
Employment in QTIME=33	E33	00000	5	N
Employment in QTIME=34	E34	00005	5	N
Employment in QTIME=35	E35	00010	5	N
Employment in QTIME=36	E36	00015	5	N
Employment in QTIME=37	E37	00020	5	N
Employment in QTIME=38	E38	00025	5	N
Employment in QTIME=39	E39	00030	5	N
Employment in QTIME=40	E40	00035	5	N
Employment in QTIME=41	E41	00040	5	N
Employment in QTIME=42	E42	00045	5	N
Employment in QTIME=43	E43	00050	5	N
Employment in QTIME=44	E44	00055	5	N
Employment in QTIME=45	E45	00060	5	N
Employment in QTIME=46	E46	00065	5	N
Employment in QTIME=47	E47	00070	5	N
Employment in QTIME=48	E48	00075	5	N
Employment in QTIME=49	E49	00080	5	N
Employment in QTIME=50	E50	00085	5	N
Employment in QTIME=51	E51	00090	5	N
Employment in QTIME=52	E52	00095	5	N
Employment in QTIME=53	E53	00100	5	N
Employment in QTIME=54	E54	00105	5	N
Employment in QTIME=55	E55	00110	5	N
Employment in QTIME=56	E56	00115	5	N
Employment in QTIME=57	E57	00120	5	N
Employment in QTIME=58	E58	00125	5	N
Employment in QTIME=59	E59	00130	5	N
Employment in QTIME=60	E60	00135	5	N
Employment in QTIME=61	E61	00140	5	N
Employment in QTIME=62	E62	00145	5	N
Employment in QTIME=63	E63	00150	5	N
Employment in QTIME=64	E64	00155	5	N
Employment in QTIME=65	E65	00160	5	N

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Employment in QTIME=66	E66	00165	5	N
Employment in QTIME=67	E67	00170	5	N
Employment in QTIME=68	E68	00175	5	N
Employment in QTIME=69	E69	00180	5	N
Employment in QTIME=70	E70	00185	5	N
Employment in QTIME=71	E71	00190	5	N
Employment in QTIME=72	E72	00195	5	N
Employment in QTIME=73	E73	00200	5	N
Employment in QTIME=74	E74	00205	5	N
Employment in QTIME=75	E75	00210	5	N
Employment in QTIME=76	E76	00215	5	N
Employment in QTIME=77	E77	00220	5	N
Employment in QTIME=78	E78	00225	5	N
Employment in QTIME=79	E79	00230	5	N
Employment in QTIME=80	E80	00235	5	N
Protected Identification Key	PIK	00243	9	A/N
SEINUNIT imputed (never true, compatibility)	FLAG_SEINUNIT_IMPUTED	00240	3	N
State Employer Identification Number	SEIN	00252	12	A/N
State UI Reporting Unit Number	SEINUNIT	00344	5	A/N

Page 112 LEHD-OVERVIEW-S2004
Revision: 219

4.3.3.3 UNIQPIK file

The UNIQPIK file is an input to the ICF. It also contains some diagnostic information, such as the number of records overall per PIK. It used to be produced by the (legacy) UIPIK sequence (called ssnall there). The UNIQPIK file (ehf_&state._uniqpik) is organized by PIK.

Record identifier PIK

Sort order PIK

Entity Person

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Illegal SSN Range Flag	SSNFLAG	00000	1	A/N
Protected Identification Key	PIK	00001	9	A/N
cut = substr(pik, 1, 2)	CUT	00010	9	A/N

LEHD-OVERVIEW-S2004 Page 113

4.3.3.4 SEIN_EMPLOYMENT

The SEIN_EMPLOYMENT is a SEIN-level measure of employment based on UI data.

The SEIN_EMPLOYMENT file (ehf_&state._sein_employment) is organized by SEIN-YEAR. No SEINUNIT version exists.

Record identifier **SEIN-YEAR**

Sort order SEIN-YEAR

 $\mathbf{Entity} \ \mathrm{Firm}$

Unique Entity Key SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Beginning of quarter employment	В	00016	8	N
Beginning of quarter employment	E	80000	8	N
Flow employment	M	00000	8	N
Quarter	QUARTER	00035	3	N
State Employer Identification Number	SEIN	00038	12	A/N
Total earnings during the quarter	w1	00024	8	N
Year	YEAR	00032	3	N
Year-Quarter YYYY:Q	YR_QTR	00050	6	A/N

Page 114 LEHD-OVERVIEW-S2004

Revision: 219

4.3.4 ES202-based Output Files

4.3.4.1 UHF

The UHF (Unit History File) used to be produced by the SPF (prior to version 3.1.12). It contains a full history of activity for each SEIN-SEINUNIT (wide file). It is still used as an input to the SPF. It replaces seinunit_history_es.sas7bdat.

The UHF file (ehf_&state._uhf) is organized by SEIN-SEINUNIT.

Record identifier SEIN-SEINUNIT

Sort order SEIN-SEINUNIT

Entity Establishment

Unique Entity Key SEIN-SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
1 if part of multi-establishment,2 if	MU_CODE	02034	80	A/N
master unit				
=1 if positive employment in quarter i	ACTIVE_EMPLOY_ES	01954	80	A/N
Ever had positive employment	ACTIVE_EVER_ES	01920	8	N
First QTIME with positive employment	ACTIVE_BEG_QTR_ES	01928	3	N
Last QTIME with positive employment	$ACTIVE_END_QTR_ES$	01931	3	N
Maximum monthly employment in QTIME=1	EMP_ES1	00640	8	N
Maximum monthly employment in QTIME=10	EMP_ES10	00712	8	N
Maximum monthly employment in QTIME=11	EMP_ES11	00720	8	N
Maximum monthly employment in QTIME=12	EMP_ES12	00728	8	N
Maximum monthly employment in QTIME=13	EMP_ES13	00736	8	N
Maximum monthly employment in QTIME=14	EMP_ES14	00744	8	N
Maximum monthly employment in QTIME=15	EMP_ES15	00752	8	N
Maximum monthly employment in QTIME=16	EMP_ES16	00760	8	N
Maximum monthly employment in QTIME=17	EMP_ES17	00768	8	N
Maximum monthly employment in QTIME=18	EMP_ES18	00776	8	N
Maximum monthly employment in QTIME=19	EMP_ES19	00784	8	N
Maximum monthly employment in QTIME=2	EMP_ES2	00648	8	N
Maximum monthly employment in QTIME=20	EMP_ES20	00792	8	N
Maximum monthly employment in QTIME=21	EMP_ES21	00800	8	N
Maximum monthly employment in QTIME=22	EMP_ES22	00808	8	N
Maximum monthly employment in QTIME=23	EMP_ES23	00816	8	N
Maximum monthly employment in QTIME=24	EMP_ES24	00824	8	N
Maximum monthly employment in QTIME=25	EMP_ES25	00832	8	N
Maximum monthly employment in QTIME=26	EMP_ES26	00840	8	N
Maximum monthly employment in QTIME=27	EMP_ES27	00848	8	N
Maximum monthly employment in QTIME=28	EMP_ES28	00856	8	N
Maximum monthly employment in QTIME=29	EMP_ES29	00864	8	N
Maximum monthly employment in QTIME=3	EMP_ES3	00656	8	N
Maximum monthly employment in QTIME=30	EMP_ES30	00872	8	N
Maximum monthly employment in QTIME=31	EMP_ES31	00880	8	N
Maximum monthly employment in QTIME=32	EMP_ES32	00888	8	N
Maximum monthly employment in QTIME=33	EMP_ES33	00896	8	N
Maximum monthly employment in QTIME=34	EMP_ES34	00904	8	N
Maximum monthly employment in QTIME=35	EMP_ES35	00912	8	N

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	$\frac{HAPTER 4. EMPLOYI}{Data dictionary}$	Starting	Field	Data
rieid name	reference name	position	size	type
Maximum monthly employment in QTIME=36	EMP_ES36	00920	8	N
Maximum monthly employment in QTIME=37	EMP_ES37	00928	8	N
Maximum monthly employment in QTIME=38	EMP_ES38	00936	8	N
Maximum monthly employment in QTIME=39	EMP_ES39	00944	8	N
Maximum monthly employment in QTIME=4	EMP_ES4	00664	8	N
Maximum monthly employment in QTIME=40	EMP_ES40	00952	8	N
Maximum monthly employment in QTIME=41	EMP_ES41	00960	8	N
Maximum monthly employment in QTIME=42	EMP_ES42	00968	8	N
Maximum monthly employment in QTIME=43	EMP_ES43	00976	8	N
Maximum monthly employment in QTIME=44	EMP_ES44	00984	8	N
Maximum monthly employment in QTIME=45	EMP_ES45	00992	8	N
Maximum monthly employment in QTIME=46	EMP_ES46	01000	8	N
Maximum monthly employment in QTIME=47	EMP_ES47	01008	8	N
Maximum monthly employment in QTIME=48	EMP_ES48	01016	8	N
Maximum monthly employment in QTIME=49	EMP_ES49	01024	8	N
Maximum monthly employment in QTIME=5	EMP_ES5	00672	8	N
Maximum monthly employment in QTIME=50	EMP_ES50	01032	8	N
Maximum monthly employment in QTIME=51	EMP_ES51	01040	8	N
Maximum monthly employment in QTIME=52	EMP_ES52	01048	8	N
Maximum monthly employment in QTIME=53	EMP_ES53	01056	8	N
Maximum monthly employment in QTIME=54	EMP_ES54	01064	8	N
Maximum monthly employment in QTIME=55	EMP_ES55	01072	8	N
Maximum monthly employment in QTIME=56	EMP_ES56	01080	8	N
Maximum monthly employment in QTIME=57	EMP_ES57	01088	8	N
Maximum monthly employment in QTIME=58	EMP_ES58	01096	8	N
Maximum monthly employment in QTIME=59	EMP_ES59	01104	8	N
Maximum monthly employment in QTIME=6	EMP_ES6	00680	8	N
Maximum monthly employment in QTIME=60	EMP_ES60	01112	8	N
Maximum monthly employment in QTIME=61	EMP_ES61	01112	8	N
Maximum monthly employment in QTIME=62	EMP_ES62	01128	8	N
Maximum monthly employment in QTIME=63	EMP_ES63	01136	8	N
Maximum monthly employment in QTIME=64	EMP_ES64	01144	8	N
Maximum monthly employment in QTIME=65	EMP_ES65	01152	8	N
Maximum monthly employment in QTIME=66	EMP_ES66	01160	8	N
Maximum monthly employment in QTIME=67	EMP_ES67	01168	8	N
Maximum monthly employment in QTIME=68	EMP_ES68	01176	8	N
Maximum monthly employment in QTIME=69	EMP_ES69	01184	8	N
Maximum monthly employment in QTIME=7	EMP_ES7	00688	8	N
Maximum monthly employment in QTIME=70	EMP_ES70	01192	8	N
Maximum monthly employment in QTIME=70	EMP_ES71	01200	8	N
Maximum monthly employment in QTIME=72	EMP_ES72	01208	8	N
Maximum monthly employment in QTIME=73	EMP_ES73	01216	8	N
Maximum monthly employment in QTIME=73 Maximum monthly employment in QTIME=74	EMP_ES73	01210	8	N
Maximum monthly employment in QTIME=75	EMP_ES75	01232	8	N
Maximum monthly employment in QTIME=76	EMP_ES76	01232	8	N
Maximum monthly employment in QTIME=77	EMP_ES77	01248	8	N
Maximum monthly employment in QTIME=78	EMP_ES78	01256	8	N
Maximum monthly employment in QTIME=79	EMP_ES79	01264	8	N
Maximum monthly employment in QTIME=8	EMP_ES8	00696	8	N
Maximum monthly employment in QTIME=80	EMP_ES80	01272	8	N N
waximum monomy employment in &rtivit=60	EMIT EDOOD	01212	O	11

Page 116 LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY FILES	(/			
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Maximum monthly employment in QTIME=9	EMP_ES9	00704	8	N
Month 1 employment in QTIME=1	BPEMP_ES1	00000	8	N
Month 1 employment in QTIME=10	BPEMP_ES10	00072	8	N
Month 1 employment in QTIME=11	BPEMP_ES11	00080	8	N
Month 1 employment in QTIME=12	BPEMP_ES12	00088	8	N
Month 1 employment in QTIME=13	BPEMP_ES13	00096	8	N
Month 1 employment in QTIME=14	BPEMP_ES14	00104	8	N
Month 1 employment in QTIME=15	BPEMP_ES15	00112	8	N
Month 1 employment in QTIME=16	BPEMP_ES16	00120	8	N
Month 1 employment in QTIME=17	BPEMP_ES17	00128	8	N
Month 1 employment in QTIME=18	BPEMP_ES18	00136	8	N
Month 1 employment in QTIME=19	BPEMP_ES19	00144	8	N
Month 1 employment in QTIME=2	BPEMP_ES2	00008	8	N
Month 1 employment in QTIME=20	BPEMP_ES20	00152	8	N
Month 1 employment in QTIME=21	BPEMP_ES21	00160	8	N
Month 1 employment in QTIME=22	BPEMP_ES22	00168	8	N
Month 1 employment in QTIME=23	BPEMP_ES23	00176	8	N
Month 1 employment in QTIME=24	BPEMP_ES24	00176	8	N
Month 1 employment in QTIME=24 Month 1 employment in QTIME=25	BPEMP_ES25	00194	8	N
Month 1 employment in QTIME=26 Month 1 employment in QTIME=26	BPEMP_ES26	00200	8	N
		00208	8	N
Month 1 employment in QTIME=27	BPEMP_ES27		8	
Month 1 employment in QTIME=28	BPEMP_ES28	00216		N
Month 1 employment in QTIME=29	BPEMP_ES29	00224	8	N
Month 1 employment in QTIME=3	BPEMP_ES3	00016	8	N
Month 1 employment in QTIME=30	BPEMP_ES30	00232	8	N
Month 1 employment in QTIME=31	BPEMP_ES31	00240	8	N
Month 1 employment in QTIME=32	BPEMP_ES32	00248	8	N
Month 1 employment in QTIME=33	BPEMP_ES33	00256	8	N
Month 1 employment in QTIME=34	BPEMP_ES34	00264	8	N
Month 1 employment in QTIME=35	BPEMP_ES35	00272	8	N
Month 1 employment in QTIME=36	BPEMP_ES36	00280	8	N
Month 1 employment in QTIME=37	BPEMP_ES37	00288	8	N
Month 1 employment in QTIME=38	BPEMP_ES38	00296	8	N
Month 1 employment in QTIME=39	BPEMP_ES39	00304	8	N
Month 1 employment in QTIME=4	BPEMP_ES4	00024	8	N
Month 1 employment in QTIME=40	BPEMP_ES40	00312	8	N
Month 1 employment in QTIME=41	BPEMP_ES41	00320	8	N
Month 1 employment in QTIME=42	BPEMP_ES42	00328	8	N
Month 1 employment in QTIME=43	BPEMP_ES43	00336	8	N
Month 1 employment in QTIME=44	BPEMP_ES44	00344	8	N
Month 1 employment in QTIME=45	BPEMP_ES45	00352	8	N
Month 1 employment in QTIME=46	BPEMP_ES46	00360	8	N
Month 1 employment in QTIME=47	BPEMP_ES47	00368	8	N
Month 1 employment in QTIME=48	BPEMP_ES48	00376	8	N
Month 1 employment in QTIME=49	BPEMP_ES49	00384	8	N
Month 1 employment in QTIME=49 Month 1 employment in QTIME=5	BPEMP_ES5	00032	8	N
Month 1 employment in QTIME=50	BPEMP_ES50	00392	8	N
Month 1 employment in QTIME=50 Month 1 employment in QTIME=51	BPEMP_ES51	00400	8	N
Month 1 employment in QTIME=52	BPEMP_ES52	00408	8	N
Month 1 employment in QTIME=53	BPEMP_ES53	00416	8	N

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004 \\ Revision: 219 \end{array}$

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

	HAPTER 4. EMPLOYN			
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Month 1 employment in QTIME=54	BPEMP_ES54	00424	8	N
Month 1 employment in QTIME=55	BPEMP_ES55	00432	8	N
Month 1 employment in QTIME=56	BPEMP_ES56	00440	8	N
Month 1 employment in QTIME=57	BPEMP_ES57	00448	8	N
Month 1 employment in QTIME=58	BPEMP_ES58	00456	8	\mathbf{N}
Month 1 employment in QTIME=59	BPEMP_ES59	00464	8	N
Month 1 employment in QTIME=6	BPEMP_ES6	00040	8	\mathbf{N}
Month 1 employment in QTIME=60	BPEMP_ES60	00472	8	N
Month 1 employment in QTIME=61	BPEMP_ES61	00480	8	N
Month 1 employment in QTIME=62	BPEMP_ES 62	00488	8	\mathbf{N}
Month 1 employment in QTIME=63	BPEMP_ES63	00496	8	N
Month 1 employment in QTIME=64	BPEMP_ES64	00504	8	N
Month 1 employment in QTIME=65	BPEMP_ES65	00512	8	N
Month 1 employment in QTIME=66	BPEMP_ES66	00520	8	N
Month 1 employment in QTIME=67	BPEMP_ES67	00528	8	N
Month 1 employment in QTIME=68	BPEMP_ES68	00536	8	N
Month 1 employment in QTIME=69	BPEMP_ES69	00544	8	N
Month 1 employment in QTIME=7	BPEMP_ES7	00048	8	N
Month 1 employment in QTIME=70	BPEMP_ES70	00552	8	N
Month 1 employment in QTIME=71	BPEMP_ES71	00560	8	N
Month 1 employment in QTIME=72	BPEMP_ES 72	00568	8	N
Month 1 employment in QTIME=73	BPEMP_ES73	00576	8	N
Month 1 employment in QTIME=74	BPEMP_ES74	00584	8	N
Month 1 employment in QTIME=75	BPEMP_ES75	00592	8	N
Month 1 employment in QTIME=76	BPEMP_ES76	00600	8	N
Month 1 employment in QTIME=77	BPEMP_ES77	00608	8	\mathbf{N}
Month 1 employment in QTIME=78	BPEMP_ES78	00616	8	N
Month 1 employment in QTIME=79	BPEMP_ES79	00624	8	N
Month 1 employment in QTIME=8	BPEMP_ES8	00056	8	N
Month 1 employment in QTIME=80	BPEMP_ES80	00632	8	N
Month 1 employment in QTIME=9	BPEMP_ES9	00064	8	N
Number of establishments in QTIME=1	NUMRUNS1	01280	8	N
Number of establishments in QTIME= 10	NUMRUNS10	01352	8	N
Number of establishments in QTIME=11	NUMRUNS11	01360	8	N
Number of establishments in QTIME=12	NUMRUNS12	01368	8	N
Number of establishments in QTIME=13	NUMRUNS13	01376	8	N
Number of establishments in QTIME=14	NUMRUNS14	01384	8	N
Number of establishments in QTIME=15	NUMRUNS15	01392	8	N
Number of establishments in QTIME=16	NUMRUNS16	01400	8	N
Number of establishments in QTIME=17	NUMRUNS17	01408	8	N
Number of establishments in QTIME=18	NUMRUNS18	01416	8	N
Number of establishments in QTIME=19	NUMRUNS19	01424	8	N
Number of establishments in QTIME=2	NUMRUNS2	01288	8	N
Number of establishments in QTIME=20	NUMRUNS20	01432	8	N
Number of establishments in QTIME=21	NUMRUNS21	01440	8	N
Number of establishments in QTIME=22	NUMRUNS22	01448	8	N
Number of establishments in QTIME=23	NUMRUNS23	01456	8	N
Number of establishments in QTIME=24	NUMRUNS24	01464	8	N
Number of establishments in QTIME=25	NUMRUNS25	01472	8	N
Number of establishments in QTIME=26	NUMRUNS26	01480	8	N

Page 118 LEHD-OVERVIEW-S2004

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY FILE			D: 11	D :
Field name	Data dictionary	Starting	Field	Data
Number of establishments in OTIME 97	reference name	position 01488	size 8	type
Number of establishments in QTIME=27	NUMRUNS27			
Number of establishments in QTIME=28	NUMRUNS28	01496	8	N
Number of establishments in QTIME=29	NUMRUNS29	01504	8	N
Number of establishments in QTIME=3	NUMRUNS3	01296	8	N
Number of establishments in QTIME=30	NUMRUNS30	01512	8	N
Number of establishments in QTIME=31	NUMRUNS31	01520	8	N
Number of establishments in QTIME=32	NUMRUNS32	01528	8	N
Number of establishments in QTIME=33	NUMRUNS33	01536	8	N
Number of establishments in QTIME=34	NUMRUNS34	01544	8	N
Number of establishments in QTIME=35	NUMRUNS35	01552	8	N
Number of establishments in QTIME=36	NUMRUNS36	01560	8	N
Number of establishments in QTIME=37	NUMRUNS37	01568	8	N
Number of establishments in QTIME=38	NUMRUNS38	01576	8	N
Number of establishments in QTIME=39	NUMRUNS39	01584	8	N
Number of establishments in QTIME=4	NUMRUNS4	01304	8	N
Number of establishments in QTIME=40	NUMRUNS40	01592	8	N
Number of establishments in QTIME=41	NUMRUNS41	01600	8	N
Number of establishments in QTIME=42	NUMRUNS42	01608	8	N
Number of establishments in QTIME=43	NUMRUNS43	01616	8	N
Number of establishments in QTIME=44	NUMRUNS44	01624	8	N
Number of establishments in QTIME=45	NUMRUNS45	01632	8	N
Number of establishments in QTIME=46	NUMRUNS46	01640	8	N
Number of establishments in QTIME=47	NUMRUNS47	01648	8	N
Number of establishments in QTIME=48	NUMRUNS48	01656	8	N
Number of establishments in QTIME=49	NUMRUNS49	01664	8	N
Number of establishments in QTIME=5	NUMRUNS5	01312	8	N
Number of establishments in QTIME=50	NUMRUNS50	01672	8	N
Number of establishments in QTIME=51	NUMRUNS51	01680	8	N
Number of establishments in QTIME=52	NUMRUNS52	01688	8	N
Number of establishments in QTIME=53	NUMRUNS53	01696	8	N
Number of establishments in QTIME=54	NUMRUNS54	01704	8	N
Number of establishments in QTIME=55	NUMRUNS55	01712	8	N
Number of establishments in QTIME=56	NUMRUNS56	01720	8	N
Number of establishments in QTIME=57	NUMRUNS57	01728	8	N
Number of establishments in QTIME=58	NUMRUNS58	01736	8	N
Number of establishments in QTIME=59	NUMRUNS59	01744	8	N
Number of establishments in QTIME=6	NUMRUNS6	01320	8	N
Number of establishments in QTIME=60	NUMRUNS60	01752	8	N
Number of establishments in QTIME=61	NUMRUNS61	01760	8	N
Number of establishments in QTIME=62	NUMRUNS62	01768	8	N
Number of establishments in QTIME=63	NUMRUNS63	01776	8	N
Number of establishments in QTIME=64	NUMRUNS64	01784	8	N
Number of establishments in QTIME=65	NUMRUNS65	01792	8	N
Number of establishments in QTIME=66	NUMRUNS66	01800	8	N
Number of establishments in QTIME=67	NUMRUNS67	01808	8	N
Number of establishments in QTIME=68	NUMRUNS68	01816	8	N
Number of establishments in QTIME=69	NUMRUNS69	01824	8	N
Number of establishments in QTIME=7	NUMRUNS7	01328	8	N
Number of establishments in QTIME=70	NUMRUNS70	01832	8	N
Number of establishments in QTIME=71	NUMRUNS71	01840	8	N
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LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Number of establishments in QTIME=72	NUMRUNS72	01848	8	N
Number of establishments in QTIME=73	NUMRUNS73	01856	8	N
Number of establishments in QTIME=74	NUMRUNS74	01864	8	N
Number of establishments in QTIME=75	NUMRUNS75	01872	8	N
Number of establishments in QTIME=76	NUMRUNS76	01880	8	N
Number of establishments in QTIME=77	NUMRUNS77	01888	8	N
Number of establishments in QTIME=78	NUMRUNS78	01896	8	N
Number of establishments in QTIME=79	NUMRUNS79	01904	8	N
Number of establishments in QTIME=8	NUMRUNS8	01336	8	N
Number of establishments in QTIME=80	NUMRUNS80	01912	8	N
Number of establishments in QTIME=9	NUMRUNS9	01344	8	N
Number of quarters with positive employment	ACTIVE_QTRS_ES	01934	3	N
State Employer ID Number	SEIN	01937	12	A/N
State UI Reporting Unit Number	SEINUNIT	01949	5	A/N

Page 120

LEHD-OVERVIEW-S2004

Revision: 219

4.3.4.2 SHF

The SHF (SEIN History File) used to be produced by the SPF (prior to version 3.1.12) as an internal file only. It contains a full history of activity for each SEIN (wide file). It is still used as an input to the SPF. It replaces sein_history_es.sas7bdat.

The SHF file (ehf_&state._shf) is organized by SEIN.

Record identifier **SEIN**

Sort order **SEIN**

Entity Firm

Unique Entity Key SEIN

reference name position size type	Field name	Data dictionary	Starting	Field	Data
in QTIME=10 in QTIME=11 in QTIME=11 in QTIME=11 in QTIME=12 in QTIME=13 in QTIME=13 in QTIME=14 in QTIME=14 in QTIME=15 in QTIME=15 in QTIME=15 in QTIME=16 in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=19 in QTIME=20 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=26 in QTIME=27 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=29 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=32 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=31 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=44 in QTIME=40 in QTI				size	type
in QTIME=11	in QTIME=1	ESTABS_ES1	01280	8	N
in QTIME=12	in QTIME=10	ESTABS_ES10	01352	8	N
in QTIME=13 in QTIME=14 in QTIME=14 in QTIME=15 in QTIME=15 in QTIME=15 in QTIME=15 in QTIME=16 in QTIME=16 in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=19 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=36 in QTIME=36 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=32 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=40 in QTIME=41 in QTIME=41 in QTIME=41 in QTIME=41 in QTIME=41 in QTI	in QTIME=11	ESTABS_ES11	01360	8	N
in QTIME=14 in QTIME=15 in QTIME=15 in QTIME=16 in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=2 in QTIME=20 in QTIME=21 in QTIME=21 in QTIME=21 in QTIME=21 in QTIME=21 in QTIME=21 in QTIME=22 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=20 in QTIME=21 in QTIME=21 in QTIME=25 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=30 in QTIME=30 in QTIME=30 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=40	in QTIME=12	ESTABS_ES12	01368	8	N
in QTIME=15 in QTIME=16 in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=18 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=19 in QTIME=2 in QTIME=20 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=22 is STABS_ES21 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=30 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=33 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=40 in QT	in QTIME=13	ESTABS_ES13	01376	8	N
in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=19 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=29 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=33 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=36 in QTIME=37 in QTIME=37 in QTIME=38 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=40 in QTI	in QTIME=14	ESTABS_ES14	01384		
in QTIME=17 ESTABS_ES17 01408 8 N in QTIME=18 ESTABS_ES18 01416 8 N in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=20 ESTABS_ES22 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=28 ESTABS_ES27 01488 8 N in QTIME=30 ESTABS_ES33 01504 8 N in QTIME=31 ESTABS_ES33 01504 8	in QTIME=15	ESTABS_ES15	01392	8	N
in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=2 in QTIME=2 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=32 in QTIME=32 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=37 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=44 in QTIME=40 in QTIME	•	ESTABS_ES16			
in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES30 01504 8 N in QTIME=31 ESTABS_ES31 01504 8 N in QTIME=32 ESTABS_ES32 01528 N in QTIME=33 ESTABS_ES33 01536 8 N <	•	ESTABS_ES17	01408		
in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES28 01496 8 N in QTIME=31 ESTABS_ES30 01504 8 N in QTIME=33 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8	•				
in QTIME=20 in QTIME=21 in QTIME=21 in QTIME=22 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=30 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=32 in QTIME=32 in QTIME=33 in QTIME=33 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=32 in QTIME=32 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=40 in QTI		ESTABS_ES19			
in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=28 ESTABS_ES27 01488 8 N in QTIME=29 ESTABS_ES28 01496 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=31 ESTABS_ES30 01512 8 N in QTIME=32 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES36 01560 8	•	ESTABS_ES2			
in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES3 01504 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=36 ESTABS_ES36 01552 8 N in QTIME=37 ESTABS_ES37 01568 8 N	•	ESTABS_ES20			
in QTIME=23	•	ESTABS_ES21	01440		
in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES38 01576 8 N <td></td> <td>ESTABS_ES22</td> <td></td> <td></td> <td></td>		ESTABS_ES22			
in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES4 01304 8	•	ESTABS_ES23			
in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES37 01568 8 N in QTIME=39 ESTABS_ES38 01576 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES24			
in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=31 ESTABS_ES3 01296 8 N in QTIME=31 ESTABS_ES30 01512 8 N in QTIME=32 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES32 01528 8 N in QTIME=34 ESTABS_ES33 01536 8 N in QTIME=35 ESTABS_ES34 01544 8 N in QTIME=36 ESTABS_ES35 01552 8 N in QTIME=37 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES25	01472		
in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=40 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES26			
in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES27	01488		
in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES36 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N		ESTABS_ES28	01496		
in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES29	01504		
in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N		ESTABS_ES3			
in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES30			
in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=31	ESTABS_ES31	01520		
in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES32			
in QTIME=35	•	ESTABS_ES33			
in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=34	ESTABS_ES34	01544		
in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	•	ESTABS_ES35			
in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=36	ESTABS_ES36	01560		
in QTIME=39		ESTABS_ES37	01568		
in QTIME=4	•	ESTABS_ES38			
in QTIME=40	•	ESTABS_ES39			
· ·		ESTABS_ES4			
in QTIME=41 ESTABS_ES41 01600 8 N	•	ESTABS_ES40			
-	in QTIME=41	ESTABS_ES41	01600	8	N

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

	IAPTER 4. EMPLOYME			
Field name	Data dictionary	Starting	Field	Data
: OTIME 49	reference name ESTABS_ES42	position	size	type
in QTIME=42		01608	8	N
in QTIME=43 in QTIME=44	ESTABS_ES43	01616	8	N
	ESTABS_ES44	01624	8	N
in QTIME=45	ESTABS_ES45	01632	8	N
in QTIME=46	ESTABS_ES46	01640	8	N
in QTIME=47	ESTABS_ES47	01648	8	N
in QTIME=48	ESTABS_ES48	01656	8	N
in QTIME=49	ESTABS_ES49	01664	8	N
in QTIME=5	ESTABS_ES5	01312	8	N
in QTIME=50	ESTABS_ES50	01672	8	N
in QTIME=51	ESTABS_ES51	01680	8	N
in QTIME=52	ESTABS_ES52	01688	8	N
in QTIME=53	ESTABS_ES53	01696	8	N
in QTIME=54	ESTABS_ES54	01704	8	N
in QTIME=55	ESTABS_ES55	01712	8	N
in QTIME=56	ESTABS_ES56	01720	8	N
in QTIME=57	ESTABS_ES57	01728	8	N
in QTIME=58	ESTABS_ES58	01736	8	N
in QTIME=59	ESTABS_ES59	01744	8	N
in QTIME=6	ESTABS_ES6	01320	8	N
in QTIME=60	ESTABS_ES60	01752	8	N
in QTIME=61	ESTABS_ES61	01760	8	N
in QTIME=62	ESTABS_ES62	01768	8	\mathbf{N}
in QTIME=63	ESTABS_ES63	01776	8	\mathbf{N}
in QTIME=64	ESTABS_ES64	01784	8	\mathbf{N}
in QTIME=65	ESTABS_ES65	01792	8	\mathbf{N}
in QTIME=66	ESTABS_ES66	01800	8	N
in QTIME=67	ESTABS_ES67	01808	8	N
in QTIME=68	ESTABS_ES68	01816	8	N
in QTIME=69	ESTABS_ES69	01824	8	N
in QTIME=7	ESTABS_ES7	01328	8	N
in QTIME=70	ESTABS_ES70	01832	8	N
in QTIME=71	ESTABS_ES71	01840	8	N
in QTIME=72	ESTABS_ES72	01848	8	\mathbf{N}
in QTIME=73	ESTABS_ES73	01856	8	\mathbf{N}
in QTIME=74	ESTABS_ES74	01864	8	N
in QTIME=75	ESTABS_ES75	01872	8	N
in QTIME=76	ESTABS_ES76	01880	8	N
in $QTIME=77$	ESTABS_ES77	01888	8	N
in QTIME=78	ESTABS_ES78	01896	8	N
in QTIME=79	ESTABS_ES79	01904	8	N
in QTIME=8	ESTABS_ES8	01336	8	N
in QTIME=80	ESTABS_ES80	01912	8	N
in QTIME=9	ESTABS_ES9	01344	8	N
=1 if positive employment in quarter i	ACTIVE_EMPLOY_ES	01957	80	A/N
Ever had positive employment	ACTIVE_EVER_ES	01920	8	N
First QTIME with positive employment	${\tt ACTIVE_BEG_QTR_ES}$	01936	3	N
Last QTIME with positive employment	$ACTIVE_END_QTR_ES$	01939	3	N
Maximum monthly employment in QTIME=1	EMP_ES1	00640	8	N
Maximum monthly employment in QTIME=10	EMP_ES10	00712	8	N

LEHD-OVERVIEW-S2004 $Page\ 122$

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
ried name	reference name	position	size	type
Maximum monthly employment in QTIME=11	EMP_ES11	00720	8	N
Maximum monthly employment in QTIME=12	EMP_ES12	00728	8	N
Maximum monthly employment in QTIME=13	EMP_ES13	00736	8	N
Maximum monthly employment in QTIME=14	EMP_ES14	00744	8	N
Maximum monthly employment in QTIME=15	EMP_ES15	00752	8	N
Maximum monthly employment in QTIME=16	EMP_ES16	00760	8	N
Maximum monthly employment in QTIME=17	EMP_ES17	00768	8	N
Maximum monthly employment in QTIME=18	EMP_ES18	00776	8	N
Maximum monthly employment in QTIME=19	EMP_ES19	00784	8	N
Maximum monthly employment in QTIME=2	EMP_ES2	00648	8	N
Maximum monthly employment in QTIME=20	EMP_ES20	00792	8	N
Maximum monthly employment in QTIME=21	EMP_ES21	00800	8	N
Maximum monthly employment in QTIME=22	EMP_ES22	00808	8	N
Maximum monthly employment in QTIME=23	EMP_ES23	00816	8	N
Maximum monthly employment in QTIME=24	EMP_ES24	00824	8	N
Maximum monthly employment in QTIME=25	EMP_ES25	00832	8	N
Maximum monthly employment in QTIME=26	EMP_ES26	00840	8	N
Maximum monthly employment in QTIME=27	EMP_ES27	00848	8	N
Maximum monthly employment in QTIME=28	EMP_ES28	00856	8	N
Maximum monthly employment in QTIME=29	EMP_ES29	00864	8	N
Maximum monthly employment in QTIME=3	EMP_ES3	00656	8	N
Maximum monthly employment in QTIME=30	EMP_ES30	00872	8	N
Maximum monthly employment in QTIME=31	EMP_ES31	00872	8	N
Maximum monthly employment in QTIME=32	EMP_ES32	00888	8	N
Maximum monthly employment in QTIME=33	EMP_ES33	00896	8	N
Maximum monthly employment in QTIME=34	EMP_ES34	00904	8	N
Maximum monthly employment in QTIME=35	EMP_ES35	00904	8	N
Maximum monthly employment in QTIME=36	EMP_ES36	00912	8	N
Maximum monthly employment in QTIME=37	EMP_ES37	00928	8	N
Maximum monthly employment in QTIME=38	EMP_ES38	00936	8	N
Maximum monthly employment in QTIME=39	EMP_ES39	00944	8	N
	EMP_ES4		8	N N
Maximum monthly employment in QTIME=4		00664	8	
Maximum monthly employment in QTIME=40	EMP_ES40 EMP_ES41	00952	8	N
Maximum monthly employment in QTIME=41 Maximum monthly employment in QTIME=42		00960	8	N N
	EMP_ES42	$00968 \\ 00976$		
Maximum monthly employment in QTIME=43	EMP_ES43		8	N
Maximum monthly employment in QTIME=44	EMP_ES44	00984	8	N
Maximum monthly employment in QTIME=45	EMP_ES45	00992	8	N
Maximum monthly employment in QTIME=46	EMP_ES46	01000	8	N
Maximum monthly employment in QTIME=47	EMP_ES47	01008	8	N
Maximum monthly employment in QTIME=48	EMP_ES48	01016	8	N
Maximum monthly employment in QTIME=49	EMP_ES49	01024	8	N
Maximum monthly employment in QTIME=5	EMP_ES5	00672	8	N
Maximum monthly employment in QTIME=50	EMP_ES50	01032	8	N
Maximum monthly employment in QTIME=51	EMP_ES51	01040	8	N
Maximum monthly employment in QTIME=52	EMP_ES52	01048	8	N
Maximum monthly employment in QTIME=53	EMP_ES53	01056	8	N
Maximum monthly employment in QTIME=54	EMP_ES54	01064	8	N
Maximum monthly employment in QTIME=55	EMP_ES55	01072	8	N
Maximum monthly employment in QTIME=56	EMP_ES56	01080	8	N

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	HAPTER 4. EMPLOYM		,	
Field name	Data dictionary	Starting	Field	Data
Mariana and Land and Company	reference name	position	size	type
Maximum monthly employment in QTIME=57	EMP_ES57	01088	8	N
Maximum monthly employment in QTIME=58	EMP_ES58	01096	8	N
Maximum monthly employment in QTIME=59	EMP_ES59	01104	8	N
Maximum monthly employment in QTIME=6	EMP_ES6	00680	8	N
Maximum monthly employment in QTIME=60	EMP_ES60	01112	8	N
Maximum monthly employment in QTIME=61	EMP_ES61	01120	8	N
Maximum monthly employment in QTIME=62	EMP_ES62	01128	8	N
Maximum monthly employment in QTIME=63	EMP_ES63	01136	8	N
Maximum monthly employment in QTIME=64	EMP_ES64	01144	8	N
Maximum monthly employment in QTIME=65	EMP_ES65	01152	8	N
Maximum monthly employment in QTIME=66	EMP_ES66	01160	8	N
Maximum monthly employment in QTIME=67	EMP_ES67	01168	8	N
Maximum monthly employment in QTIME=68	EMP_ES68	01176	8	N
Maximum monthly employment in QTIME=69	EMP_ES69	01184	8	N
Maximum monthly employment in QTIME=7	EMP_ES7	00688	8	N
Maximum monthly employment in QTIME=70	EMP_ES70	01192	8	N
Maximum monthly employment in QTIME=71	EMP_ES71	01200	8	N
Maximum monthly employment in QTIME=72	EMP_ES72	01208	8	N
Maximum monthly employment in QTIME=73	EMP_ES73	01216	8	N
Maximum monthly employment in QTIME=74	EMP_ES74	01224	8	N
Maximum monthly employment in QTIME=75	EMP_ES75	01232	8	N
Maximum monthly employment in QTIME=76	EMP_ES76	01240	8	N
Maximum monthly employment in QTIME=77	EMP_ES77	01248	8	N
Maximum monthly employment in QTIME=78	EMP_ES78	01256	8	N
Maximum monthly employment in QTIME=79	EMP_ES79	01264	8	N
Maximum monthly employment in QTIME=8	EMP_ES8	00696	8	N
Maximum monthly employment in QTIME=80	EMP_ES80	01272	8	N
Maximum monthly employment in QTIME=9	EMP_ES9	00704	8	N
Month 1 employment in QTIME=1	BPEMP_ES1	00000	8	N
Month 1 employment in QTIME=10	BPEMP_ES10	00072	8	N
Month 1 employment in QTIME=11	BPEMP_ES11	00080	8	N
Month 1 employment in QTIME=12	BPEMP_ES12	00088	8	N
Month 1 employment in QTIME=13	BPEMP_ES13	00096	8	N
Month 1 employment in QTIME=14	BPEMP_ES14	00104	8	N
Month 1 employment in QTIME=15	BPEMP_ES15	00112	8	N
Month 1 employment in QTIME=16	BPEMP_ES16	00120	8	\mathbf{N}
Month 1 employment in QTIME=17	BPEMP_ES17	00128	8	N
Month 1 employment in QTIME=18	BPEMP_ES18	00136	8	N
Month 1 employment in QTIME=19	BPEMP_ES19	00144	8	\mathbf{N}
Month 1 employment in QTIME=2	BPEMP_ES2	00008	8	\mathbf{N}
Month 1 employment in QTIME=20	BPEMP_ES20	00152	8	\mathbf{N}
Month 1 employment in QTIME=21	BPEMP_ES21	00160	8	N
Month 1 employment in QTIME=22	BPEMP_ES22	00168	8	N
Month 1 employment in QTIME=23	BPEMP_ES23	00176	8	N
Month 1 employment in QTIME=24	BPEMP_ES24	00184	8	N
Month 1 employment in QTIME=25	BPEMP_ES25	00192	8	N
Month 1 employment in QTIME=26	BPEMP_ES26	00200	8	N
Month 1 employment in QTIME=27	BPEMP_ES27	00208	8	N
Month 1 employment in QTIME=28	BPEMP_ES28	00216	8	N
Month 1 employment in QTIME=29	BPEMP_ES29	00224	8	N
- · · · · · · · · · · · · · · · · · · ·				

Page 124 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY F				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Month 1 employment in QTIME=3	BPEMP_ES3	00016	8	N
Month 1 employment in QTIME=30	BPEMP_ES30	00232	8	N
Month 1 employment in QTIME=31	BPEMP_ES31	00240	8	N
Month 1 employment in QTIME=32	BPEMP_ES 32	00248	8	N
Month 1 employment in QTIME=33	BPEMP_ES33	00256	8	N
Month 1 employment in QTIME=34	BPEMP_ES34	00264	8	N
Month 1 employment in QTIME=35	BPEMP_ES35	00272	8	N
Month 1 employment in QTIME=36	BPEMP_ES36	00280	8	N
Month 1 employment in QTIME=37	BPEMP_ES37	00288	8	N
Month 1 employment in QTIME=38	BPEMP_ES38	00296	8	N
Month 1 employment in QTIME=39	BPEMP_ES39	00304	8	N
Month 1 employment in QTIME=4	BPEMP_ES4	00024	8	N
Month 1 employment in QTIME=40	BPEMP_ES40	00312	8	N
Month 1 employment in QTIME=40 Month 1 employment in QTIME=41	BPEMP_ES41	00320	8	N
Month 1 employment in QTIME=41 Month 1 employment in QTIME=42	BPEMP_ES42	00328	8	N
Month 1 employment in QTIME=42 Month 1 employment in QTIME=43	BPEMP_ES43	00328	8	N
Month 1 employment in QTIME=45 Month 1 employment in QTIME=44	BPEMP_ES44	00344	8	N
- v •		00344 00352	8	N N
Month 1 employment in QTIME=45	BPEMP_ES45		8	
Month 1 employment in QTIME=46	BPEMP_ES46	00360		N
Month 1 employment in QTIME=47	BPEMP_ES47	00368	8	N
Month 1 employment in QTIME=48	BPEMP_ES48	00376	8	N
Month 1 employment in QTIME=49	BPEMP_ES49	00384	8	N
Month 1 employment in QTIME=5	BPEMP_ES5	00032	8	N
Month 1 employment in QTIME=50	BPEMP_ES 50	00392	8	N
Month 1 employment in QTIME=51	BPEMP_ES 51	00400	8	N
Month 1 employment in QTIME=52	BPEMP_ES 52	00408	8	N
Month 1 employment in QTIME=53	BPEMP_ES 53	00416	8	N
Month 1 employment in QTIME=54	BPEMP_ES54	00424	8	N
Month 1 employment in QTIME=55	BPEMP_ES55	00432	8	N
Month 1 employment in QTIME=56	BPEMP_ES 56	00440	8	N
Month 1 employment in QTIME=57	BPEMP_ES57	00448	8	N
Month 1 employment in QTIME=58	BPEMP_ES58	00456	8	N
Month 1 employment in QTIME=59	BPEMP_ES59	00464	8	N
Month 1 employment in QTIME=6	BPEMP_ES6	00040	8	N
Month 1 employment in QTIME=60	BPEMP_ES60	00472	8	N
Month 1 employment in QTIME=61	BPEMP_ES61	00480	8	N
Month 1 employment in QTIME=62	BPEMP_ES62	00488	8	N
Month 1 employment in QTIME=63	BPEMP_ES63	00496	8	N
Month 1 employment in QTIME=64	BPEMP_ES64	00504	8	N
Month 1 employment in QTIME=65	BPEMP_ES65	00512	8	N
Month 1 employment in QTIME=66	BPEMP_ES66	00520	8	N
Month 1 employment in QTIME=67	BPEMP_ES67	00528	8	N
Month 1 employment in QTIME=68	BPEMP_ES68	00536	8	N
Month 1 employment in QTIME=69	BPEMP_ES69	00544	8	N
Month 1 employment in QTIME=09 Month 1 employment in QTIME=7	BPEMP_ES7	00048	8	N
Month 1 employment in QTIME=70	BPEMP_ES70	00552	8	N
Month 1 employment in QTIME=71	BPEMP_ES71	00560	8	N
Month 1 employment in QTIME=72	BPEMP_ES72	00568	8	N
Month 1 employment in QTIME=73	BPEMP_ES73	00576	8	N
Month 1 employment in QTIME=74	BPEMP_ES 74	00584	8	N

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Month 1 employment in QTIME=75	BPEMP_ES75	00592	8	N
Month 1 employment in QTIME=76	BPEMP_ES76	00600	8	N
Month 1 employment in QTIME=77	BPEMP_ES77	00608	8	N
Month 1 employment in QTIME=78	BPEMP_ES78	00616	8	N
Month 1 employment in QTIME=79	BPEMP_ES79	00624	8	N
Month 1 employment in QTIME=8	BPEMP_ES8	00056	8	N
Month 1 employment in QTIME=80	BPEMP_ES80	00632	8	N
Month 1 employment in QTIME=9	BPEMP_ES9	00064	8	N
Number of quarters with positive employment	ACTIVE_QTRS_ES	01942	3	N
SEIN was ever had multiple units	EVER_MU	01928	8	N
State Employer ID Number	SEIN	01945	12	A/N

LEHD-OVERVIEW-S2004 $Page\ 126$

4.3.5 Summary information on datasets

Table 4.7: File information, by state , for EHF $\,$

		Number of		Filesizes		
State		datafiles	Records	(MB)	Start	End
Covered states		217	2,838,350,408	418,570.64	1985Q2	2004Q3
Alabama	AL	7	22,419,226	$2,\!578.44$	2001Q1	2004Q2
Arkansas	AR	7	9,519,686	1,044.09	2002Q3	2004Q2
California	CA	7	514,071,832	76,263.99	1991Q1	2003Q4
Colorado	CO	7	90,966,637	14,970.98	1990Q1	2004Q1
Delaware	DE	7	7,640,788	911.26	1997Q1	2004Q1
Florida	FL	7	256,230,604	$39,\!224.97$	1989Q1	2004Q1
Iowa	IA	7	25,761,052	$3,\!200.69$	1990Q1	2004Q1
Idaho	ID	7	$23,\!835,\!178$	3,816.40	1990Q1	2004Q1
Illinois	IL	7	$221,\!251,\!965$	$33,\!438.76$	1990Q1	2004Q1
Indiana	IN	7	114,988,266	$17,\!429.23$	1990Q1	2004Q1
Kansas	KS	7	52,731,691	$8,\!172.11$	1990Q1	2004Q1
Kentucky	KY	7	42,071,468	5,037.72	1996Q4	2004Q1
Maryland	MD	7	115,760,015	$20,\!485.74$	1985Q2	2004Q2
Maine	ME	7	14,680,364	1,938.88	1996Q1	2004Q1
Minnesota	MN	7	76,484,001	10,400.03	1994Q3	2004Q3
Missouri	MO	7	106,408,441	$16,\!866.77$	1990Q1	2004Q1
Montana	MT	7	13,651,082	2,006.10	1993Q1	2004Q1
North Carolina	NC	7	140,709,238	21,001.80	1990Q1	2003Q4
North Dakota	ND	7	$6,\!327,\!983$	778.26	1998Q1	2004Q2
New Jersey	NJ	7	87,722,728	$11,\!467.09$	1995Q1	2004Q1
New Mexico	NM	7	21,480,296	2,925.88	1990Q1	2004Q1
Oklahoma	OK	7	21,756,391	$2,\!573.13$	1999Q1	2004Q1
Oregon	OR	7	$61,\!857,\!523$	$9,\!536.13$	1990Q1	2004Q1
Pennsylvania	PA	7	188,590,880	$27,\!341.23$	1991Q1	2004Q1
South Carolina	SC	7	39,151,294	4,754.95	1998Q1	2004Q3
Texas	TX	7	$269,\!205,\!201$	$37,\!549.96$	1990Q1	2004Q2
Virginia	VA	7	64,226,246	7,831.45	1995Q3	2004Q1
Vermont	VT	7	4,456,337	521.20	2000Q1	2004Q1
Washington	WA	7	$112,\!085,\!555$	$18,\!187.27$	1990Q1	2004Q1
Wisconsin	WI	7	97,269,196	$14,\!389.28$	1990Q1	2004Q1
West Virginia	WV	7	$15,\!039,\!244$	1,926.86	1990Q1	2004Q1

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004 \\ Revision: 219 \end{array}$

4.4 NOTES

Table 4.8: UI/EHF Summary of Information and Known Issues with Data Coverage and Quality

State	Known Data Quality Issues (UI/EHF)	Recommendation to Researchers
CA	None	
СО	60-70% hole in UI data in 1993:3. 20% unresolved identifier mismatch on UI in [90:1-90:3]	Researchers should generally avoid use of pre-1994 EHF data in CO.
FL	(1) There appear to be changes being made in the firm identifiers on the ES202 and UI data in the mid-to-late 1990s. Specifically it looks as though some changes are made on the identifiers in the ES202 in 1996 and in 1997 the UI data is corrected in kind. In the ES202 data, 14% of firms die in 1995:4 and are born in 1996:1, indicating a shift in some firm identifiers. A similar change in magnitude occurs in the UI data between 1997:1 and 1997:4. Between these years, the rate of match between the UI and ES202 SEINs is somewhat poor (10% of UI SEINs do not appear on the ES202 between 1996:1 and 1997:3), although it is quite good both before and after. (2) The match between the ES202 and UI data is not good in 2002:4-2003:3, with 13-20% of UI SEINs not appearing in the ES-202 data.	While not a big enough problem to recommend avoiding use of these date ranges in FL, be aware that changes in firm identifiers in the mid-1990s will bias worker flow measures during this period.
IA ID	None 1990 UI data has firm identifier problems on ap-	Researchers should generally avoid use of 1990 ID
	proximately 40% of the records. Because of these problems, this year is not included in the EHF.	EHF data, which should not be too much of an issue as ES202 information is missing for this year in ID.
IL	Small hole in UI data in 1990:1 (10% missing). 1992:1 and 1993:1 are also missing UI wage records.	Note to researchers: These problems bias worker flows in those quarters, also full quarter employ- ment in early years of IL data.
IN	None	
KS	Large holes in KS UI data at 1990:1 ($\rlap{$z$}50\%$ missing) and 1992:4 ($\rlap{$z$}5\%$ missing)	Researchers should generally avoid use of 1990 and 1992 KS EHF data; this problem will also bias full quarter employment and flows in 1993.
KY	UI identifier problem in 2000:3-2001:2 likely, due to 10%, 15% death rates in 2000:3, 2000:4, followed by 11%, 14% birth rates in 2001:1 and 2001:2. (Normal is 3-7% births/deaths in a particular quarter)	Note to researchers: These problems bias worker flows in those quarters, also full quarter employment during 2000-2001 KY data.
MD	None	
ME	None	
MN	None	
MO	$1994{:}4$ UI data is small (approximately 70% sample).	Researchers should generally avoid use of 1994 MO EHF data; this problem will also bias some full quarter employment and flows measures in 1995.
MT		r .,
		(cont.)

(cont)

Table 4.8 – Continued

State	Known Data Quality Issues (UI/EHF)	Recommendation to Researchers
NC	* ES202 show persistently lower employment	Note to Researchers: Similar to problems in early
	than UI, by about 14%, except for 1991:1-1992:3	years of IL, these issues bias worker flows in those
	(around 0%) and $2002:1-2002:4$ (5-8%). Warnings	quarters, also full quarter employment.
	are generated when it goes above 15%. * Pay-	
	roll is typically 6-8% higher on ES202 compared	
	to UI except for 1991:1-1992:3, where it is 20-	
	30% higher. There are also significant, but not	
	as large deviations in 2002:1-2003:1. * Based on	
	the BLS PU records, the ES202 data series looks	
	fine: ES202 sums rarely go above 1% (Test 13-1 and 13-2)	
	Conclusion: we are still missing wage records in	
	the early periods, and some in later periods as	
	well. The most recent wage records actually look	
	coherent with the longest time series, but 2002 is a small problem.	
NJ	Small holes in NJ UI data at 1998:3 (5%) and	Note to Researchers: Problem probably small
	1999:1 (8-10%) and 2003:1 (10%)	enough to ignore for most research purposes.
NM	None	
OK	None	
OR	1994:1 is small, but not terribly so.	Note to Researchers: Problem probably small enough to ignore for most research purposes.
PA	UI wage records are 1% sample for $1996:4$	Note to Researchers: Generally avoid use of 1996 PA annual earnings (particularly earnings changes between 1995-1996, 1996-1997, which will be biased), this problem will also bias some flows and full quarter employment measures in 1996 and 1997.
TX	None	
VA	1998:1 is small, and 1998:2 also looks on the small	Note to Researchers: Problems probably small
	side.	enough to ignore for most research purposes.
WA	None	
WI	None	
WV	None	

LEHD-OVERVIEW-S2004 Page 129

Page 130 LEHD-OVERVIEW-S2004

Chapter 5. Geo-coded Address List (GAL)

5.1 OVERVIEW

5.1.1 Definition of GAL

The Geocoded Address List (GAL) is a data set containing unique commercial and residential addresses in a state geocoded to the Census Block and latitude/longitude coordinates. It consists of the address list (GAL) and a crosswalk for each processed file-year. The GAL contains each unique address, identified by a GAL identifier called galid, its geocodes, a flag for each file-year in which it appears, data quality indicators, and data processing information, including the release date of the Geographic Reference File (GRF). The GAL Crosswalk contains the ID of each input entity and the ID of its address (galid).

Input Data The input data consists of addresses, geocodes, and coordinates. Currently, the source files providing addresses consist of the following (future work will add the Non-employer file):

ACS-POW	American Community Survey Place of Work (2001 and later)
AHS	American Housing Survey (2002)
ES202	Employment Security form 202 (all available years 1990 and later)
SSEL	Business Register (Standard Statistical Establishment List 1990 and later)
MAF	Master Address File (the year following the year of the desired geographic vintage)

Geocodes The source files providing geocodes and coordinates are the following:

GCP	the databases of Group1's Geographic Coding Plus software
MAF	Master Address File
GRF-C	Geographic Reference File, Codes (encompassed in the BMF)
WIB-C	Workforce Investment Board, Codes (encompassed in the BMF)
BMF	Block Map File

5.1.2 Update frequency

The internal use GAL is produced monthly. The RDC version is produced occassionally, usually at the same time as the other LEHD-provided RDC files.

5.1.3 Acquisition process

In the S2004 Infrastructure Files, the most recent available GAL at the time of transfer is used. In the future, the RDC version of the GAL will be produced as part of the LEHD Infrastructure files, and will be coordinated with other LEHD Infrastructure files.

Revision: 219

5.1.4 Processing description

All internal processing variables (parsed addresses in particular) are available on the RDC. All crosswalks to input files (for instance, the BR) are available as well. Note that a researcher needs to request the input files separately, and not all input files may be available in the RDC environment.

The Census-internal GAL is considered commingled data, *i.e.*, it contains information protected both under Title 13 and Title 26. Because projects requesting Title 26 data are handled differently from projects requesting only Title 13 information, the GAL is split. Before transferring the GAL to the RDC environment, all variables that refer to Title 26 data are split off, and stored in a separate file (gal_ZZ_t26flags.sas7bdat, Section 5.3.5). Furthermore, all records sourced exclusively from Title 26 data are removed from the main GAL dataset, and stored separately (gal_ZZ_t26.sas7bdat, Section 5.3.4). Section 5.4.1 describes the program used to split the data from the internal-use commingled file. Section 5.4.2 provides a sample program to join all three components together again.

Page 132 LEHD-OVERVIEW-S2004

5.2 DETAILS

The following document was prepared by Marc Roemer, U.S. Census Bureau. It provides a general overview of how the GAL files are created.

The Geocoded Address List (GAL) is a data set containing unique commercial and residential addresses in a state geocoded to the Census Block and latitude/longitude coordinates. The file encompasses addresses from the state ES202 data, the Business Register, the Census Bureau's Master Address File (MAF), the American Community Survey Place of Work file (ACS-POW), and others. Addresses from these source files go through Code1, Vality standardizer, Vality matching for unduplication, and several other steps in SAS. This document refers to one year's data from a source file as a file-year (for example, the 1995 ES202).

The job stream follows the steps below using the indicated software.

- Step 1: Create input (SAS).
- Step 2: Standardize and geocode addresses (Code1).
- Step 3: Parse and standardize address elements (Vality Standardize).
- Step 4: Match addresses, flag masters and duplicates (Vality Unduplicate).
- Step 5: Create preliminary crosswalk and unique address list with address identifier (SAS).
- Step 6: Set file-year flags, create GAL Crosswalks containing the input identifier and address identifier (SAS).
- Step 7: Retrieve and derive block codes and coordinates from the MAF (SAS).
- Step 8: Impute block within known tract (SAS).
- Step 9: Create GAL by adding higher-level geocodes by block (SAS).
- Step 10: Delete intermediate data files and create links.

The final output consists of the address list and a crosswalk for each processed file-year. The GAL contains each address, its geocodes, a flag for each file-year in which it appears, data quality indicators, and data processing information. The GAL Crosswalk contains the ID of each input entity and the ID of its address. The following section describes the GAL's content.

5.2.1 Important Variables

Unique identifier The variable galid is the unique address identifier on the GAL, a 26-character string consisting of the letter 'A' in the first column followed by the 2-character state FIPS code and a zero-padded sequential number. The galid is created each time a GAL is created. There's no consistency in the galid between versions or vintages of the GAL.

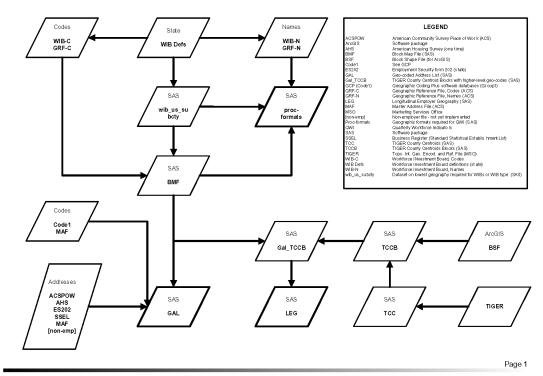
Geographic vintage The release date (year) of the GRF identifies the geographic vintage. In the GAL the vintage becomes the variable a_vintage.

Geographic codes The variable a_geocode is $FIPS-state(2) \| FIPS-county(3) \| Census-tract(6)$, and it uniquely identifies the Census tract in the U.S. The tract is the lowest level of geography recommended for analysis. The Census block within the tract is a_block. The uncertainties in block-coding make block-level analysis questionable. However, geocoding to the block allows us to add all the higher-level geocodes to the addresses. The variable a_block_src generated in Steps 7 and 8 describes the source of the block-code.

Revision: 219

Figure 5.1: GAL Processing

Flowchart for Adding WIBs to GAL/LEG Processing - 09/12/05



Source: Longitudinal Employer-Household Dynamics (LEHD) Program, Census Bureau

Page 134

LEHD-OVERVIEW-S2004

Revision: 219

		* *
	Typical	
Value	Percent	Meaning
\mathbf{C}	12.20	Code1, or the address matches an address for
		which Code1 supplied the block code
M	81.86	The MAF - the address is a MAF address or
		matches a MAF address
\mathbf{E}	0.00	The MAF, the street address is exactly the same
		as a MAF address in the same tract
W	0.03	The MAF, the street address is between 2 MAF
		addresses on the same block face
O	1.23	Imputed by the distribution of commercial ad-
		dresses in the tract
\mathbf{S}	1.17	Imputed by the distribution of residential ad-
		dresses in the tract
I	0.01	Imputed by the distribution of mixed-use ad-
		dresses in the tract
D	0.00	Imputed by the distribution of all addresses in the
		tract
missing	3.50	Block code is missing
_		

In all states observed so far except California, no address required the 'D' method. That is, almost every tract where an address lacks a block code contains commercial, residential, and mixed-use addresses.

The Census Bureau splits blocks to accommodate changes in political boundaries. Most commonly, these are place boundaries (a place is a city, village, or similar municipality). The resulting block parts are identified by 2 suffixes, each taking a value from A to Z. The GAL assigns the block part directly from the MAF, or by adopting the one whose internal point is closest to the address by the straight-line distance. The variables a_block_suf1 and a_block_suf2 identify the block part, and a_block_suf_src generated in Step 9 describes the method used to assign it.

	Typical	
Value	Percent	Meaning
A	1.50	Assigned by distance
${ m M}$	4.18	The MAF - the address is a MAF address or
		matches a MAF address
missing	94.32	Not a split block

The GAL also provides the following basic geographic variables:

```
FIPS-state(2)||FIPS-county (3)
a_ssccc
         FIPS state (2)
a_st
         FIPS county within the state (3)
a_cty
a_{tract}
         Census tract within the county (6)
```

Higher-level geographic codes originate from the Block Map File (BMF) and attach to the GAL in Step 9. The BMF is an extract of the GRF-C (Geographic Reference File - Codes). All these geocodes are character variables. FIPS (Federal Information Processing Standard) codes are unique within the U.S.; Census codes are not.

a_fipsmcd	5-digit FIPS Minor Civil Division (a division of a county)
a_mcd	3-digit Census Minor Civil Division (a division of a county)
a_fipspl	5-digit FIPS Place
$a_{-}place$	4-digit Census Place
a_msapmsa	Metropolitan-Statistical-Area(4) Primary-Metropolitan-Statistical-Area(4)
a_{-} wib	6-digit Workforce Investment Board area

Revision: 219

Geographic coordinates The coordinates of each address are in the variables a_latitude and a_longitude. These variables are numeric with 6 implied decimals (divide by 1,000,000 to convert them). The coordinates are not as accurate as 6 decimal places implies. An indication of their quality is in the variable a_geoqual, a numeric variable taking values from 1 to 9 and generated in Steps 7, 8, and 9:

	Typical	
Value	Percent	Meaning
1	80.15	Rooftop or MAF (most accurate)
2	1.59	ZIP4 or block face, block face is certain
3	10.12	Block group is certain
4	4.65	Tract is certain
9	3.50	Coordinates are missing

The format 'agqual' provided by 'format_geo.sas' in '/programs/projects/auxiliary/Formats' contains the meanings of the a_geoqual values listed above.

Two other variables give information about the coordinates. The flag a_latlong_src indicates their source:

'	Typical	
Value	Percent	Meaning
В	14.77	Block (or block part) internal point
\mathbf{C}	70.04	Code1
D	0.03	Derived
M	11.66	the MAF
missing	3.50	Coordinates are missing

Few addresses have a latlong src equal to 'D'. Deriving coordinates occurs only if they're still missing after Code1 processing and direct extraction from the MAF, but the tract is known. In this case, the flag a_latlong_drv generated in Step 7 describes the derivation method:

	Typical	
Value	Percent	Meaning
F	0.00	Adopted from the only address on the block face
P	0.04	Extrapolated between 2 addresses on the block
		face
missing	99.96	Derivation not performed

In GAL Version 1, deriving coordinates and block codes by these methods was an important means of block-coding. It rarely operates now, since Code1 began providing block codes. Nevertheless, GAL Version 3 still exhausts all methods of assigning block-codes and coordinates before resorting to imputation.

File-year flags A set of flags generated in Step 6 indicates what file-years an address appears in. The names of the flags conform to the naming convention [f][yyyy] for the source file [f] and year [yyyy], where [f] takes the following values:

Business Register	f = b
ES202	f = e
Master Address File	f = m
American Community Survey - Place of Work	f = p
American Housing Survey	f = h

For example, the flag variable b1997 equals 1 if the address is on the 1997 Business Register; otherwise it equals 0. Note that if a [LEHD] state partner supplies 1991 ES202 data with no address information, e1991 will be 0 for all addresses. Typically, the e[yyyy] flags equal 1 for between 3 and 6 percent of addresses, the b[yyyy] flags equal 1 for between 4 and 10 percent, and the m[yyyy] flag is 1 for between 80 and 90 percent. The p[yyyy] and h[yyyy] flags equal 1 for less than 1 percent of addresses because the ACS-POW and AHS data are sample surveys.

LEHD-OVERVIEW-S2004 Page 136 Revision: 219

5.2.2 Other Variables

occupant_type The variable occupant_type, recoded from the file-year flags in Step 8, indicates whether an address is commercial, residential, or mixed-use.

bigsrcid The tracking ID bigsrcid, created in Step 1, uniquely identifies the entity that supplied the address. It consists of [f], [yyyy], the unique ID from the input file, zero-padding, and for some source files, a flag indicating which set of variables supplied the address. For addresses originating in the Business Register, another flag indicates the single-unit data set or the multi-unit data set. This tracking ID variable is useful for debugging.

This variable is only available GAL_ZZ_2003_T26FLAGS.

srcmast A diagnostic variable srcmast contains [f][yyyy], indicating the file-year that supplied this address. Bear in mind that it's often arbitrary which observation becomes the master address for a set of duplicates in Step 1 and Step 4, so bigsrcid and srcmast don't indicate anything special about an address or an entity. They simply identify the origin of an address that became a master address in unduplication.

This variable is only available GAL_ZZ_2003_T26FLAGS.

Code 1 variables The names of Code1 variables contain the prefix c1. They impart mostly diagnostic information from Code1 processing. They could be useful for development work or address research.

For records sourced exclusively from the BR, these variables are available on GAL_ZZ_2003_T26. For records sourced exclusively from the ES202! (ES202!), some variables were blanked on GAL_ZZ_2003 and are available on GAL_ZZ_2003_ES202ONLY to Census personnel only. Code1 diagnostic codes remain available to all researchers.

Vality variables The parsed address elements from Step 3 sit in the variables named with the prefix v_{-} . They could be useful for development work, particularly in improving the parsing routine.

For records sourced exclusively from the BR, these variables are available on GAL_ZZ_2003_T26. For records sourced exclusively from the ES202!, some variables were blanked on GAL_ZZ_2003 and are available on GAL_ZZ_2003_ES202ONLY to Census personnel only. Vality diagnostic codes remain available to all researchers.

5.2.3 Accessing the GAL: the GAL Crosswalks

The GAL Crosswalks allow you to extract geographic and address information about any entity whose address went into the GAL. Each crosswalk contains the identifiers of the entity, its galid, and sometimes flags. To attach geocodes, coordinates, or address information to an entity, merge the GAL Crosswalk to the GAL by galid, outputting only observations existing on the GAL Crosswalk. Then merge the resulting file to the entities of interest using the entity identifiers. An entity whose address wasn't processed (because it's out of state or lacks address information) will have blank GAL data.

- For the AHS, the entity ID variables are control and year.
- For the ES202, the entity ID variables are sein, seinunit, year, and quarter. The flag variable e_flag indicates whether the address came from the address_street1, address_state, and address_zip9 variables (e_flag=P for physical address) or from the ui_address_street1, ui_address_state, and ui_address_zip9 variables (e_flag=M for mailing address).
- For the ACS-POW data, the entity ID variables are acsfileseq, cmid, seq, and pnum.
- For the Business Register, the entity ID variables are cfn, year, and singmult. The flag variable singmult indicates whether the entity resides in the single-unit (su) or the multi-unit (mu) data set. Another flag variable b_flag indicates whether the address originated from the variables pstreet,

Revision: 219

pplce, pst, and pzip (b_flag=P for physical address) or street, plce, st, and zip (b_flag=M for mailing address).

• For the MAF, mafid and year identify entities.

5.2.4 Resources for geographic information

The best place for information about Census geography is

http://www.census.gov/geo/www/reference.html.

Especially informative is the Geographic Areas Reference Manual (GARM), at

http://www.census.gov/geo/www/garm.html

Page 138 LEHD-OVERVIEW-S2004

Revision: 219

5.3 DATA SET DESCRIPTIONS

5.3.1 Naming scheme

All GAL files are labelled with the geovintage used in the creation, i.e., 2003, and except for the main dataset, a suffix, composed of a dataset abbreviation and a calendar year:

```
gal_zz_2003.sas7bdat
gal_zz_2003_t26flags.sas7bdat
gal_zz_2003_t26.sas7bdat
gal_zz_2003_acspow_2001.sas7bdat
gal_zz_2003_ahs_2002.sas7bdat
gal_zz_2003_br_2001.sas7bdat
gal_zz_2003_maf_2004.sas7bdat
gal_zz_2003_xwlk_2001.sas7bdat
gal_zz_2003_es202only.sas7bdat
```

ZZ stands for the state postal abbreviation, and YYYY for a calendar year. Not all files are available for all states. In particular, LEHD-related crosswalks are only available for states actively participating with LEHD at the time of creation of the GAL.

Suffix	Crosswalk to:	Availability
acspow	American Community Survey	2001-2005
	Place-of-Work Coding	
ahs	American Housing Survey	as of 2002
br	Business Register (ex-SSEL)	1990-2001
maf	(Census) Master Address File	as of 2004
xwalk	LEHD ES-202	varies by state; consult LEHD-
		ES-202 documentation

Files with suffixes t26, t26flags, and tccb are not cross-walks. Consult Sections 5.3.4, 5.3.5, and 5.3.7, respectively.

5.3.2 Data location

The files are stored in two main directories, with state-specific subdirectories:

```
gal/ZZ/ for most files
galt26/ZZ for files with Title 26 protected content
```

On the RDC network, both directories can be found under

```
/mixed/lehd/current
```

Files reserved for Census internal projects can be found in

```
galcc/ZZ
```

For the exact location, consult with the RDC administrator.

LEHD-OVERVIEW-S2004

Revision: 219

5.3.3 Main dataset: GAL_ZZ_2003

This file does not contain data protected exclusively under Title 26. Consult Section 5.3.4 and 5.3.5. This file also does not report any address data sourced exclusively from ES-202. If a field contains address data sourced exclusively from ES-202, the values have been blanked on this file, and preserved in GAL_ZZ_2003_ES2020NLY (see Section 5.3.6).

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
3-digit Census MCD	A_MCD	00612	3	A/N
4-digit Census Place	A_PLACE	00620	4	A/N
5-digit FIPS MCD	$A_{FIPSMCD}$	00607	5	A/N
5-digit FIPS Place	A_FIPSPL	00615	5	A/N
6-character Traffic Analysis Zone (leading blanks)	A_TAZ	00596	6	A/N
Address on AHS $2002 = 1$; else=0	н2002	00561	1	A/N
Address on ES202 year YYYY =1; else=0	EYYYY	00554	1	A/N
Address on MAF $2004 = 1$; else=0	M2004	00562	1	$\dot{A/N}$
Address on ACS-POW year YYYY =1; else=0	PYYYY	00563	1	A/N
Census Block suffix 1	A_BLOCK_SUF1	00585	1	A/N
Census Block suffix 2	A_BLOCK_SUF2	00586	1	A/N
Census block within tract	A_BLOCK	00581	4	A/N
Census tract within county	A_TRACT	00590	6	A/N
Code1 Census block id 3 digit	C1_BLOCK	00489	3	A/N
Code1 Census block id 4 digit	C1_BLOCK4	00032	4	A/N
Code1 Census geocode (tract)	C1_GEOCODE	00477	12	A/N
Code1 USPS record type	C1_USPSRECTYPE	00467	1	A/N
Code1 ZIP	C1_ZIP	00457	5	A/N
Code1 ZIP code status	C1_ZIP_STATUS	00471	1	A/N
Code1 ZIP return code	$C1_ZIP_RC$	00021	1	A/N
Code1 ZIP source	C1_ZIP_SRC	00466	1	A/N
Code1 ZIP+4 code	$C1$ _ZIP4	00462	4	A/N
Code1 ZIP4 return code	$C1_ZIP4_RC$	00022	1	A/N
Code1 address correctness score	C1_ADDRESS_CS	00469	1	A/N
Code1 address return code	$C1_ADDRESS_RC$	00017	1	A/N
Code1 address w/apt	C1_ADDRESS	00357	70	A/N
Code1 alias/base return code	$C1_ALIAS_RC$	00018	1	A/N
Code1 apartment return code	$C1_APT_RC$	00026	1	A/N
Code1 carrier route return code	$C1_CARRTE_RC$	00023	1	A/N
Code1 city name	C1_CITY	00427	28	A/N
Code1 city/state return code	$C1_CITYSTATE_RC$	00020	1	A/N
Code1 directional return code	C1_DIRECTIONAL_H	RC 00024	1	A/N
Code1 dropped information code	C1_DROPPEDINFO_	RC 00019	1	A/N
Code1 general return code	C1_GENERAL_RC	00016	1	A/N
Code1 geocode return code	$C1_GEO_RC$	00476	1	A/N

Page 140 LEHD-OVERVIEW-S2004

 $\underline{\textit{CHAPTER 5.}} \ \ \underline{\textit{GEO-CODED ADDRESS LIST (GAL)}}$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Code1 lat/long coordinate	c1_latlong	00492	20	A/N
Code1 lat/long level	c1_latlong_rc	00512	1	A/N
Code1 master file vintage	$c1$ _vintdate	00472	4	A/N
Code1 overall correctness	c1_overall_rc	00468	1	A/N
Code1 state abbrev	$C1_STATE$	00455	2	A/N
Code1 street name correctness score	c1_streetname_	CS 00470	1	A/N
Code1 suffix return code	c1_suffix_rc	00025	1	A/N
Describes source of block coding	A_BLOCK_SRC	00587	1	A/N
Commercial, Mixed, or Residential	OCCUPANT_TYPE	00568	1	A/N
FIPS county within state	A_CTY	00604	3	A/N
FIPS state	A_ST	00602	2	A/N
5-digit FIPS (state and county)	A_SSCCC	00638	5	A/N
Full geocode (incl. tract code)	$A_GEOCODE$	00569	11	A/N
Latitude, 6 implied decimal places	$A_LATITUDE$	00000	8	N
Longitude, 6 implied decimal places	$A_LONGITUDE$	00008	8	N
MSA-PMSA	$A_MSAPMSA$	00624	8	A/N
Maf, Code1, Derived, Block (or part) internal point	$A_LATLONG_SRC$	00580	1	A/N
Maf; Assigned by distance	A_BLOCK_SUF_SRC	00589	1	A/N
Quality of lat/long	$A_GEOQUAL$	00646	3	\mathbf{N}
Unique GAL address ID	GALID	00513	29	A/N
Vality additional address info	$V_{-}ADDADDR$	00220	35	A/N
Vality address type	$V_ADDRTYP$	00255	1	A/N
Vality box type	$V_{-}BTYPE$	00128	7	A/N
Vality box value	$V_{-}BVAL$	00135	10	A/N
Vality building name	V_BUILDN	00190	30	A/N
Vality floor type	V_{FTYPE}	00145	5	A/N
Vality floor value	$V_{-}FVAL$	00150	10	A/N
Vality house number	V_HNUM	00036	10	A/N
Vality house number suffix	$V_{-}HNUMS$	00046	10	A/N
Vality input pattern	V_INPATT	00311	20	A/N
Vality multi-unit type	V_MUTYPE	00175	5	A/N
Vality multi-unit value	$V_{-}MUVAL$	00180	10	A/N
Vality rural route type	V_RTYPE	00115	3	A/N
Vality rural route value	V_RVAL	00118	10	A/N
Vality street name	V_SNAME	00080	25	A/N
Vality street prefix - directional	V_SPRED	00056	2	A/N
Vality street prefix - type	V_SPRET	00060	20	A/N
Vality street suffix - directional	$V_{-}SSUFD$	00058	2	A/N
Vality street suffix - qualifier	$V_{-}SSUFQ$	00110	5	A/N
Vality street suffix - type	V_SSUFT	00105	5	A/N
Vality unhandled data	V_UNDATA	00276	35	A/N
Vality unhandled pattern	V_UNPATT	00256	20	A/N
Vality unit type	V_UTYPE	00160	5	$\dot{A/N}$
Vality unit value	$V_{-}UVAL$	00165	10	A/N
Vintage of Census geography (GRF)	$A_{VINTAGE}$	00643	3	N
Workforce Investment Board area	A_WIB	00632	6	A/N
only addr on blockFace; extraPolation	$A_LATLONG_DRV$	00588	1	A/N

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5.3.4 Auxiliary dataset: GAL_ZZ_2003_T26

This file has the same column structure as the main file, but contains all records sourced exclusively from Title 26-protected information. The columns are described in Section 5.3.3.

Record identifier: GALID

Sort order: GALID File indexes: none

Entity unique address

Unique Entity Key GALID

Page 142

LEHD-OVERVIEW-S2004

Revision: 219

5.3.5 Auxiliary dataset: GAL_ZZ_2003_T26flags

This file contains all Business Register-related flags, for all GAL records.

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address on SSEL 1990 =1; else=0	в1990	00029	1	A/N
Address on SSEL 1991 $=1$; else=0	в1991	00030	1	A/N
Address on SSEL 1992 $=1$; else=0	в1992	00031	1	A/N
Address on SSEL 1993 $=1$; else=0	в1993	00032	1	A/N
Address on SSEL $1994 = 1$; else=0	в1994	00033	1	A/N
Address on SSEL 1995 $=1$; else=0	в1995	00034	1	A/N
Address on SSEL 1996 $=1$; else=0	в1996	00035	1	A/N
Address on SSEL 1997 $=1$; else=0	в1997	00036	1	A/N
Address on SSEL 1998 $=1$; else=0	в1998	00037	1	A/N
Address on SSEL 1999 $=1$; else=0	в1999	00038	1	A/N
Address on SSEL $2000 = 1$; else=0	в2000	00039	1	A/N
Address on SSEL $2001 = 1$; else=0	в2001	00040	1	A/N
Tracking ID	BIGSRCID	00331	26	A/N
Unique GAL address	ID GALID	00000	29	A/N
A——YYYYMMDD_HHMM_ST——nnnnnnnnn	n			
Source file of this address	SRCMAST	00027	5	A/N

LEHD-OVERVIEW-S2004 Page 143

Revision: 219

Auxiliary dataset: GAL_ZZ_2003_ES202ONLY $\overline{5.3.6}$

This file contains address information sourced exclusively from ES-202 files, which have been blanked on GAL_ZZ_2003. This file is only accessible to Census-internal projects.

Record identifier: GALID

Sort order: GALID File indexes: none Entity unique address

Unique Entity Key GALID

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
	C1_ZIP	00457	5	A/N
Code1 ZIP				
Code1 ZIP+4 code	$C1_{ZIP4}$	00462	4	A/N
Code1 address w/apt	C1_ADDRESS	00357	70	A/N
Code1 city name	$C1$ _ $CITY$	00427	28	A/N
Code1 state abbrev	$C1_STATE$	00455	2	A/N
Unique GAL address ID	GALID	00513	29	A/N
Vality additional address info	V_ADDADDR	00220	35	A/N
Vality box value	V_BVAL	00135	10	A/N
Vality building name	V_BUILDN	00190	30	A/N
Vality floor value	$V_{ m FVAL}$	00150	10	A/N
Vality house number	V_HNUM	00036	10	A/N
Vality house number suffix	V_HNUMS	00046	10	A/N
Vality multi-unit value	V_MUVAL	00180	10	A/N
Vality rural route value	V_{RVAL}	00118	10	A/N
Vality street name	V_SNAME	00080	25	A/N
Vality street prefix - directional	V_SPRED	00056	2	A/N
Vality street prefix - type	V_SPRET	00060	20	A/N
Vality street suffix - directional	$V_{-}SSUFD$	00058	2	A/N
Vality street suffix - qualifier	V_SSUFQ	00110	5	A/N
Vality street suffix - type	V_SSUFT	00105	5	A/N
Vality unhandled data	$V_{\perp}UNDATA$	00276	35	A/N
Vality unhandled pattern	V_UNPATT	00256	20	A/N
Vality unit value	$V_{-}UVAL$	00165	10	A/N

Page 144 LEHD-OVERVIEW-S2004 Revision: 219

5.3.7 Auxiliary dataset: GAL_ZZ_2003_TCCB

The TCCB file provides county centroids in a structure similar to the main GAL file.

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID (merge or concat?)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
	A_BLOCK_SUF1	00092	1	A/N
	A_BLOCK_SUF2	00093	1	A/N
3-digit Census MCD	A_MCD	00085	3	A/N
4-digit Census Place	A_PLACE	00088	4	A/N
5-digit FIPS MCD	A_FIPSMCD	00075	5	A/N
5-digit FIPS Place	A_FIPSPL	00080	5	A/N
A=Arcview	A_BLOCK_SRC	00060	1	A/N
Census block within tract	A_BLOCK	00056	4	A/N
Full geocode (incl. tract)	$A_GEOCODE$	00045	11	A/N
Latitude, 6 implied decimal places	A_LATITUDE	00000	8	N
Longitude, 6 implied decimal places	A_LONGITUDE	00008	8	N
MSA-PMSA	A_MSAPMSA	00061	8	A/N
Quality of lat/long	$A_GEOQUAL$	00094	3	N
Unique GAL address ID	GALID	00016	29	A/N
Workforce Investment Board (WIB) area	A_WIB	00069	6	A/N

LEHD-OVERVIEW-S2004 Page 145

5.3.8 ACS Place-of-work Crosswalk: GAL_ZZ_2003_POW_YYYY

There is one ACS-POW Crosswalk per year of input data YYYY. Files are named gal_ZZ_2003_pow_YYYY.

Record identifier: cmid, seq, pnum

Sort order: cmid, seq, and pnum

File indexes: none

Entity Entity on ACS

Unique Entity Key $\,{\rm cmid},\,{\rm seq},\,{\rm pnum},\,{\rm acsfileseq}$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
ACS file sequence number	ACSFILESEQ	00041	2	A/N
Address ID	GALID	00000	29	A/N
Continuous measurement ID	CMID	00029	9	A/N
Person number	PNUM	00039	2	A/N
Sequence number	SEQ	00038	1	A/N

Page 146 LEHD-OVERVIEW-S2004

5.3.9 AHS Crosswalk: GAL_ZZ_2003_AHS_YYYY

There is one AHS Crosswalk, tagged with the year YYYY the input dataset was captured. The file is called gal_ZZ_2003_ahs_YYYY.

 ${\bf Record\ identifier:\ control\ (year)}$

Sort order: control
File indexes: none
Entity Entity on AHS

Unique Entity Key control (year)

Field nam	e	Data	dictionary	Starting	Field	Data
		referer	nce name	position	size	type
		CONT	ROL	00033	13	A/N
Address ID		GALID)	00000	29	A/N
Year YYYY		YEAR		00029	4	A/N

LEHD-OVERVIEW-S2004 Page 147

5.3.10 Business Register Crosswalk: GAL_ZZ_2003_BR_YYYY

There is one BR Crosswalk per year YYYY of input data. The files are called gal_ZZ_2003_br_YYYY. The entire file is considered FTI.

Record identifier: cfn, year singmult

Sort order: cfn
File indexes: none
Entity Establishment

Unique Entity Key cfn

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address ID	GALID	00000	29	A/N
Census File Number	CFN	00033	10	A/N
P=physical,M=mailing	B_FLAG	00044	1	A/N
S=su file, $M=mu$ file	SINGMULT	00043	1	A/N
Year YYYY	YEAR	00029	4	A/N

Page 148 LEHD-OVERVIEW-S2004

CHAPTER 5. GEO-CODED ADDRESS LIST (GAL)

5.3.11 ES202 Crosswalk: GAL_ZZ_2003_XWALK_YYYY

There is one ES202 Crosswalk per year YYYY of input data. The files are called gal_ZZ_2003_xwalk_YYYY.

Record identifier: sein, seinunit, year, quarter

Sort order: sein seinunit

File indexes: none

Entity Reporting unit (SESA)

Unique Entity Key sein, seinunit, year, quarter

Data dictionary	Starting	Field	Data
reference name	position	size	type
GALID	00000	29	A/N
$E_{-}FLAG$	00046	1	A/N
QUARTER	00050	3	N
SEIN	00029	12	A/N
SEINUNIT	00041	5	A/N
YEAR	00047	3	N
	reference name GALID E_FLAG QUARTER SEIN SEINUNIT	reference name position GALID 00000 E_FLAG 00046 QUARTER 00050 SEIN 00029 SEINUNIT 00041	reference name position size GALID 00000 29 E_FLAG 00046 1 QUARTER 00050 3 SEIN 00029 12 SEINUNIT 00041 5

LEHD-OVERVIEW-S2004 Page 149

5.3.12 MAF Crosswalk: GAL_ZZ_2003_MAF_2004

The crosswalk allows for linking back to the Census Master Address File (MAF) (2004 version). The file is called gal_ZZ_2003_maf_2004.

Record identifier: mafid year

Sort order: mafid year

File indexes: none

Entity mafid and year

Unique Entity Key mafid year

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address ID	GALID	00000	29	A/N
Master Address File ID	MAFID	00033	12	A/N
Year YYYY	YEAR	00029	4	A/N

Page 150

LEHD-OVERVIEW-S2004

5.4 PROGRAMS

5.4.1 Separating Title 26 information

```
/* Time-stamp: <06/10/07 20:50:46 vilhuber> */
             /* $Id: split_gal_t26.tex 131 2007-05-10 00:05:13Z vilhu001 $ */
             %macro split_gal_t26(state=,outlib=WORK,outt26=WORK);
            libname INPUTS "/mixedtmp/lehd2/s2004/gal_commingled/&state./";
            libname OUTPUTS "/mixedtmp/lehd2/s2004/gal/&state./";
            libname OUTT26 "/mixedtmp/lehd2/s2004/galt26/&state./";
            options compress=yes;
            data &outlib..gal_&state._2003
             (drop=b1: b2: label="Free of T26-only-sourced records and columns")
                 &outt26..gal_&state._2003_t26
             (drop=b1: b2: label="T26-only-sourced records")
                 &outt26..gal_&state._2003_t26flags
             (keep=galid b1: b2: compress=no label="T26-related flags only");
             set INPUTS.gal_&state._2003;
Define lengths and labels.
            length flag_t26 3;
            label flag_t26= "Contains only T26-sourced information";
            array t26flags b1: b2:;
            array others e1: e2: h2: m2: p2: ;
            hit_br=0;
            hit_others=0;
see if we have BR information
            do over t26flags;
             if t26flags='1' then hit_br=1;
            end;
see if we have any other information
            do over others:
            if others='1' then hit_others=1;
            flag_t26=(hit_br and not hit_others);
            /* now do the cleaning */
            output &outt26..gal_&state._2003_t26flags;
            if flag_t26 then output &outt26..gal_&state._2003_t26;
            else output &outlib..gal_&state._2003;
now sort the files
            proc sort data=&outt26..gal_&state._2003_t26;
            by galid;
            proc sort data=&outt26..gal_&state._2003_t26flags;
            by galid;
            run;
            proc sort data=&outlib..gal_&state._2003;
            by galid;
            run;
Some info on the files.
            proc contents data=&outt26..gal_&state._2003_t26flags;
            run:
            proc contents data=&outt26..gal_&state._2003_t26;
            proc contents data=&outlib..gal_&state._2003;
            run;
            libname OUTPUTS;
            libname OUTT26;
            libname INPUTS;
            %mend;
```

5.4.2 Recombining GAL component files

First, put the two halves together this could have been an append as well, but this puts it into the right sort order

```
data merged;
merge INPUTS.gal_&state._2003_t26(in=a)
      INPUTS.gal_&state._2003(in=b);
by galid;
_merge=a+2*b;
run;
proc freq data=merged;
title " First merge";
table _merge;
run;
data OUTPUTS.gal_&state._combined;
merge merged(in=a drop=_merge)
      INPUTS.gal_&state._2003_t26flags(in=b)
by galid;
_merge=a+2*b;
run;
proc freq data=OUTPUTS.gal_&state._combined;
title " Second merge";
table _merge;
run;
%mend;
%combine_gal_t26(state=id);
```

Page 152 LEHD-OVERVIEW-S2004

5.5 NOTES

Page 154

LEHD-OVERVIEW-S2004

Chapter 6. Individual Characteristics File (ICF)

6.1 **OVERVIEW**

The Individual Characteristics File (ICF) for each state contains one record for every person who is ever employed in that state over the time period spanned by the state's unemployment insurance records.

The ICF is constructed in the following manner. First, the universe of individuals is defined by compiling the list of unique PIKs from the EHF. Demographic information from the PCF is then merged on by PIK, and records without a valid match flagged. PIK-survey identifier crosswalks link the CPS and SIPP ID variables into the ICF, and sex and age information from the CPS is used to complement and verify the PCF-provided information.

Age and sex imputation 6.1.1

Approximately 3% of the PIKs found in the UI wage records do not link to the PCF. Multiple imputation methods are used to impute date of birth and sex for these individuals. To impute sex, the probability of being male is estimated using a state-specific logit model:

$$P(male) = f(X_{is}\beta_s) \tag{6.1}$$

where X_{is} contains a full set of yearly log earnings and squared log earnings, and full set of employment indicators covering the time period spanned by the state's records, for each individual i with strictly positive earnings within state s and non-missing PCF sex. The state-specific $\hat{\beta}_s$ as estimated from Equation (6.1) is then used to predict the probability of being male for individuals with missing sex within state s, and sex is assigned as

male if
$$X_{is}\hat{\beta}_s \ge \mu_l$$
 (6.2)

where $\mu_l \sim U[0,1]$ is one of $l=1,\ldots,10$ independent draws from the distribution. Thus, each individual with missing sex is assigned ten independent missing data implicates, all of which are used in the QWI processing.

The imputation of date of birth is done in a similar fashion using a multinomial logit to predict the probability of being in one of eight age categories and then assigning an age based on this probability and the distribution of ages within the category. Again, the missing data imputation occurs ten times.

If an individual is missing sex or birth date in the PCF, but not in the CPS, then the CPS values are used, not the imputed values. Also, before the imputation model for date of birth is implemented, basic editing of the date of birth variable takes place to account for obvious coding errors, such as a negative age at the time when UI earnings are first reported for the individual. In those relatively rare cases where the date

LEHD-OVERVIEW-S2004 Page 155

¹Note that this imputation does not account for estimation error in $\hat{\beta}$. This was one of the first missing data imputations developed at LEHD. At the time, techniques for sampling from the posterior predictive distribution of a binary outcome where the likelihood function is based on a logistic regression were not feasible on the LEHD computer system. Since only three percent of the observations in the ICF are subject to this missing data edit, it was implemented as described in the text. A longitudinal, enhanced ICF is under development. All missing data imputations in the new ICF will be performed by sampling from an appropriate posterior predictive distribution. This will properly account for estimation error.

of birth information is deemed unrealistic, it is set to missing and imputed based on the model described above.

Place of residence imputation 6.1.2

Place of residence information on the ICF is derived from the StARS (Statistical Administrative Records System), which for the vast majority of the individuals found in the UI wage records contains information on the place of residence down to the exact geographical coordinates. However, in less than ten percent of all cases the geography information is incomplete or missing. The QWI estimation relies on completed place of residence information. Because this information is a critical conditioning variable in the unit-to-worker (U2W) imputation model, all missing residential addresses are imputed.

County of residence is imputed based on a categorical model of the data that is a fully-saturated contingency table. Separately for each state, unique combinations of categories of sex, age, race, income and county of work are used to form $i = 1, \ldots, I$ populations. For each sample i, the probability of residing in a particular county as of 1999, π_{ij} , is estimated by the sample proportion, $p_{ij} = n_{ij}/n_i$, where $j = 1, \ldots, J$ indexes all the counties in the state plus an extra category for out-of-state residents.

County of residence is then imputed based on

$$county = jif P_{ij-1} \le u_k < P_{ij}$$

where P_i is the CDF corresponding to p_i for the ith population and $\mu_{kl} \sim U[0,1]$ is one of $k=1,\ldots,10$ independent draws for the lth individual belonging to the ith population.²

In its current version no geography below the county level is imputed and in those cases where exact geographical coordinates are incomplete the centroid of the finest geographical area is used. Thus, in cases where no geography information is available this amounts to the centroid of the imputed county. Geographical coordinates are not assigned to individuals whose county of residence has been imputed to be out-of-state.

6.1.3 **Education** imputation

The imputation model for education relies on a statistical match between the Decennial Census 1990 and LEHD data. The probability of belonging to one of 13 education categories is estimated using 1990 Decennial data conditional on characteristics that are common to both Decennial and LEHD data, using a state-specific logit model:

$$P(educat) = f(Z_{is}\gamma_s) \tag{6.3}$$

where Z_{is} contains age categories, earnings categories, and industry dummies for individuals age 14 and older in the 1990 Census Long Form residing in the state being estimated, and who reported strictly positive wage earnings. The education category is imputed based on

$$educat = j \text{ if } cp_{i-1} \leq \mu_l < cp_i$$

where $cp_j = Z_{is}\hat{\gamma}_s$ and $\mu_l \sim U[0,1]$ is one of $l = 11, \ldots, 20$ independent draws, and $i \in EHF$.

Page 156 LEHD-OVERVIEW-S2004 Revision: 219

²The longitudinal, enhanced ICF that is under development augments the model in the text with a Dirichlet prior distribution for the P_{ij} s. The imputations are then made by sampling from the posterior predictive distribution, which is also Dirichlet.

³In the longitudinally enhanced ICF that is under development, this imputation is replaced by a probablistic record link to Census 2000 long form data. Approximately one person in six acquires directly reported educational attainment as of 2000. The remaining individuals get 10 multiple imputations from a Dirichlet-Multinomial posterior predictive distribution.

6.2 DATA SET DESCRIPTIONS

6.2.1 Unique record identifier

The unique record identifier within each ICF file is the P! (P!)IK. However, in the current ICF scheme, a person may have (possibly inconsistent) records in multiple states. Each file therefore also contains a state variable. The combination PIK - state is unique across all states, within the set of ICF files, and should be used when concatenating or otherwise combining records from multiple states.

6.2.2 Naming scheme

There are five files in the ICF/ICFT26 group:

icf_zz.sas7bdat
icf_zz_implicates_age_sex.sas7bdat
icf_zz_implicates_county.sas7bdat
icf_zz_implicates_education.sas7bdat
icf_zz_t26.sas7bdat

ZZ stands for the state postal abbreviation. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

6.2.3 Data location

The files are stored in two main directories, with state-specific subdirectories:

 $\begin{array}{ll} \text{icf/ZZ/} & \text{for most files} \\ \text{icft26/ZZ} & \text{for files with Title 26 protected content} \end{array}$

On the RDC network, both directories can be found under

/mixed/lehd/current

6.2.4 Main dataset: ICF_zz

This is the core dataset, containing all observed non-FTI and the first implicate for imputed variables.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
CPS Household ID for the first time this Pik matches CPS	HID1	00113	5	A/N
CPS Household ID for the second time this Pik matches CPS	HID2	00120	5	A/N
CPS Person ID variable for first time Pik matches CPS	PPOSOLD1	00118	2	A/N
CPS Person ID variable for second time Pik matches CPS	PPOSOLD2	00125	2	A/N

Page 157

LEHD-OVERVIEW-S2004

CHAPTER 6. INDIVIDUAL CHARACTERISTICS FILE (ICF)

	INDIVIDUAL CH.			
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Census numident race codes=bestrace var	RACE	00112	1	A/N
Citizen Change Date Century	CITIZCC	00085	2	A/N
Citizen Change Date Year	CITIZYY	00088	2	A/N
DOB missing due to no numident match	DOBMISSING_NOMA	<mark>АТСӨ</mark> 0111	1	A/N
Date of birth has been edited	DOBEDIT	00109	1	A/N
Date of birth imputation flag	DOBIMPUTED	00083	1	A/N
Date of birth missing in Numident	DOBMISSING	00110	1	A/N
Date of birth, sas format	DOB	00000	8	N
Ever Alien Flag	ALIEN	00084	1	A/N
First Internal SIPP ID matched to PIK	SIPPINTID1	00127	19	$\dot{\rm A/N}$
First year this Pik matches CPS	YEARCPS1	00033	3	N
Fourth Internal SIPP ID matched to PIK	SIPPINTID4	00184	19	A/N
Gender imputation flag	SEXIMPUTED	00082	1	A'N
Illegal SSN Range Flag	SSNFLAG	00203	1	A'N
Imputed education length	EDIMP1	00069	3	N
Month of first time this Pik matches CPS	MNTHCPS1	00039	3	N
Month of second time this Pik matches CPS	MNTHCPS2	00042	3	N
Number of SIPP Panels where Duplicate INTIDs	DUPINSIPPPANEL	00054	3	N
match to PIK	DOTINGITTANEL	00004	0	11
Number of SIPP Panels where this PIK is found	COUNT_SIPPPANEL	s 00051	3	N
		00031	3 1	A/N
Numident variable=gender	SEX			
POB foreign indicator	POBFIN	00102	$\frac{1}{3}$	A/N
Pik duplicated across years,mapped to multiple CPS	CPSDUPIKCY	00024	3	N
IDs, different years	1	00007	0	3.T
Pik duplicated within year, mapped to multiple CPS	CPSDUPIK1	00027	3	N
IDs, single year		00000	0	3.T
Pik duplicated within year, mapped to multiple CPS	CPSDUPIK2	00030	3	N
IDs,single year			_	
Protected Identification Key	PIK	00072	9	A/N
SAS Date Value Date of Death	DOD	00008	8	N
SIPP PANEL of first INTID	PANELSIPP1	00057	3	N
SIPP PANEL of first INTID	PANELSIPP2	00060	3	N
SIPP PANEL of first INTID	PANELSIPP3	00063	3	N
SIPP PANEL of first INTID	PANELSIPP4	00066	3	N
Second Internal SIPP ID matched to PIK	SIPPINTID2	00146	19	A/N
Second year this Pik matches CPS	YEARCPS2	00036	3	N
State	STATE	00016	8	N
Third Internal SIPP ID matched to PIK	SIPPINTID3	00165	19	A/N
Year of latest PCF extract	YOPCF	00045	3	N
Year of latest StAR extract	YOSE	00048	3	N
citizen code	CITIZEN	00087	1	A/N
city, county of birth	POBCITY	00090	12	A/N
source of data	SOURCE	00105	2	A/N
state, country of birth	POBST	00103	2	A/N
type of source	SOURCETP	00107	2	A/N
y po or bource	SOUTOLII	00107	_	11/14

Page 158

LEHD-OVERVIEW-S2004

Age and sex implicates: ICF_zz_implicates_age_sex 6.2.5

The first implicate for both date of birth and sex are stored on the main ICF file as DOB and SEX. Imputed values are flagged by the appropriate flag. Other implicates are found in this file, and can be merged on when required.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Date of birth imputation flag	DOBIMPUTED	00082	1	A/N
Date of birth, SAS format (Implicate 10)	DOB10	00064	8	N
Date of birth, SAS format (Implicate 2)	DOB2	00000	8	N
Date of birth, SAS format (Implicate 3)	DOB3	00008	8	N
Date of birth, SAS format (Implicate 4)	DOB4	00016	8	\mathbf{N}
Date of birth, SAS format (Implicate 5)	DOB5	00024	8	N
Date of birth, SAS format (Implicate 6)	DOB6	00032	8	N
Date of birth, SAS format (Implicate 7)	DOB7	00040	8	N
Date of birth, SAS format (Implicate 8)	DOB8	00048	8	N
Date of birth, SAS format (Implicate 9)	DOB9	00056	8	N
Gender imputation flag	SEXIMPUTED	00081	1	A/N
Numident variable=gender (Implicate 10)	sex10	00091	1	A/N
Numident variable=gender (Implicate 2)	SEX2	00083	1	A/N
Numident variable=gender (Implicate 3)	SEX3	00084	1	A/N
Numident variable=gender (Implicate 4)	SEX4	00085	1	A/N
Numident variable=gender (Implicate 5)	SEX5	00086	1	$\dot{\rm A/N}$
Numident variable=gender (Implicate 6)	sex6	00087	1	A/N
Numident variable=gender (Implicate 7)	SEX7	00088	1	A/N
Numident variable=gender (Implicate 8)	SEX8	00089	1	A/N
Numident variable=gender (Implicate 9)	sex9	00090	1	$\dot{A/N}$
Protected Identification Key	PIK	00072	9	$\dot{\rm A/N}$

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

6.2.6 Residence implicates: ICF_zz_implicates_county

The first implicate is stored on the main ICF file as COUNTY_LIVE. Imputed values are flagged there by an appropriate flag COUNTYLIVEIMPUTED. Other implicates are found in this file, and can be merged on when required.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
County of Residence (implicate 10) run	COUNTY_LIVE10	00049	5	A/N
County of Residence (implicate 2)	COUNTY_LIVE2	00009	5	A/N
County of Residence (implicate 3)	COUNTY_LIVE3	00014	5	A/N
County of Residence (implicate 4)	COUNTY_LIVE4	00019	5	A/N
County of Residence (implicate 5)	COUNTY_LIVE5	00024	5	A/N
County of Residence (implicate 6)	COUNTY_LIVE6	00029	5	A/N
County of Residence (implicate 7)	COUNTY_LIVE7	00034	5	A/N
County of Residence (implicate 8)	COUNTY_LIVE8	00039	5	A/N
County of Residence (implicate 9)	COUNTY_LIVE9	00044	5	A/N
County of Residence imputation flag	COUNTYLIVEIMPU	TED00054	1	A/N
Protected Identification Key	PIK	00000	9	A/N

Page 160 LEHD-OVERVIEW-S2004

Education implicates: ICF_zz_implicates_education

The first implicate is stored on the main ICF file as EDIMP1. No flag exists, since all values are imputed. Other implicates are found in this file, and can be merged on when required.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Imputed education length (implicate 10) run	EDIMP10	00024	3	N
Imputed education length (implicate 2)	EDIMP2	00000	3	N
Imputed education length (implicate 3)	EDIMP3	00003	3	N
Imputed education length (implicate 4)	EDIMP4	00006	3	N
Imputed education length (implicate 5)	EDIMP5	00009	3	N
Imputed education length (implicate 6)	EDIMP6	00012	3	N
Imputed education length (implicate 7)	EDIMP7	00015	3	N
Imputed education length (implicate 8)	EDIMP8	00018	3	N
Imputed education length (implicate 9)	EDIMP9	00021	3	N
Protected Identification Key	PIK	00027	9	A/N

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

Title 26 information: ICF_zz_t26 $\overline{6.2.8}$

FTI has been removed from the core ICF, and stored separately. Note that in the RDC network, this file is stored under a separate set of permissions, and if users require access to this information, need to request access to an additional group. T26 variables are starred below.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Admin record huid	HUID_1999 *	00047	35	A/N
Admin record source of huid	$HUIDSRC_1999 *$	00082	7	A/N
Basic street address conflict flag	HSRC23_1999 *	00089	7	A/N
County of Residence as of year 1999:2	COUNTY_LIVE *	00041	5	A/N
County of Residence imputation flag	COUNTYLIVEIMPU	TED00046	1	A/N
Flag quality of latitude/longitude of residence	FLAG_LATLONG	00000	8	N
Latitude of residence, 6 implied decimal places	LATITUDE_LIVE	00008	8	N
	*			
Longitude of residence, 6 implied decimal places	LONGITUDE_LIVE	00016	8	N
	*			
Protected Identification Key	PIK	00032	9	A/N
State (derived from UI wage records)	STATE	00024	8	N

 $Page\ 162$ LEHD-OVERVIEW-S2004

6.2.9 Summary information on datasets

Table 6.6: File information, by state , by group , for ICF

			Number of		Filesizes		
State		Group	datafiles	Records	(MB)	Start	End
Covered states			62	402,634,528	42,070.20	1985Q2	2004Q3
Alabama	AL	icf	1	2,921,217	374.87	2001Q1	2004Q2
Alabama	AL	icft26	1	2,921,217	241.36	2001Q1	2004Q2
Arkansas	AR	icf	1	1,590,571	204.77	2002Q3	2004Q2
Arkansas	AR	icft26	1	1,590,571	131.44	2002Q3	2004Q2
California	CA	icf	1	34,012,258	4,336.96	1991Q3	2003Q4
California	CA	icft26	1	34,012,258	2,676.46	1991Q3	2003Q4
Colorado	CO	icf	1	6,729,548	858.27	1990Q1	2004Q1
Colorado	CO	icft26	1	6,729,548	541.36	1990Q1	2004Q1
Delaware	DE	icf	1	806,071	103.29	1998Q3	2004Q1
Delaware	$\overline{\mathrm{DE}}$	icft26	1	806,071	66.38	1998Q3	2004Q1
Florida	FL	icf	1	18,252,091	2,320.04	1992Q4	2004Q1
Florida	FL	icft26	1	18,252,091	1,461.77	1992Q4	2004Q1
Iowa	IA	icf	1	2,505,678	321.18	1998Q4	2004Q1
Iowa	IA	icft26	1	2,505,678	208.41	1998Q4	2004Q1 2004Q1
Idaho	ID	icf	1	1,730,508	200.41 221.52	1990Q1	2004Q1 2004Q1
Idaho	ID	icft26	1	1,730,508	140.14	1990Q1	2004Q1 2004Q1
Illinois	IL	icf	1	13,875,529	1,767.07	1990Q1	2004Q1 2004Q1
Illinois	IL	icft26	1	13,875,529	1,121.48	1990Q1 1990Q1	2004Q1 2004Q1
Indiana	IN	icf	1	6,810,867	873.73	1990Q1 1990Q1	2004Q1 2004Q1
Indiana	IN	icft26	1		563.23	1990Q1 1990Q1	2004Q1 2004Q1
Kansas	KS	icf	1	$6,810,867 \\ 3,897,988$		1990Q1 1990Q1	2004Q1 2004Q1
	KS KS		1	, ,	498.09	•	2004Q1 2004Q1
Kansas		icft26	1	3,897,988	315.27	1990Q1	•
Kentucky	KY	icf	1	3,587,680	460.12	1996Q4	2004Q1
Kentucky	KY	icft26	1	3,587,680	295.99	1996Q4	2004Q1
Maryland	MD	icf		7,235,448	925.88	1985Q2	2004Q2
Maryland	MD	icft26	1	7,235,448	587.50	1985Q2	2004Q2
Maine	ME	icf	1	1,206,021	154.18	1996Q1	2004Q1
Maine	ME	icft26	1	1,206,021	98.00	1996Q1	2004Q1
Minnesota	MN	icf	1	5,019,721	642.09	1994Q3	2004Q3
Minnesota	MN	icft26	1	5,019,721	412.84	1994Q3	2004Q3
Missouri	MO	icf	1	6,750,881	865.16	1990Q1	2004Q1
Missouri	MO	icft26	1	6,750,881	554.58	1990Q1	2004Q1
Montana	МТ	icf	1	1,065,111	136.60	1993Q1	2004Q1
Montana	MT	icft26	1	1,065,111	87.54	1993Q1	2004Q1
North Carolina	NC	icf	1	9,630,526	$1,\!241.21$	1991Q1	2003Q4
North Carolina	NC	icft26	1	9,630,526	784.52	1991Q1	2003Q4
North Dakota	ND	icf	1	$608,\!486$	77.91	1998Q1	2004Q2
North Dakota	ND	icft26	1	$608,\!486$	50.66	1998Q1	2004Q2
New Jersey	NJ	icf	1	7,895,006	1,006.49	1996Q1	2004Q1
New Jersey	NJ	icft26	1	7,895,006	636.09	1996Q1	2004Q1
New Mexico	NM	icf	1	1,902,184	245.76	1995Q3	2004Q1
New Mexico	NM	icft26	1	1,902,184	157.04	1995Q3	2004Q1
Oklahoma	OK	icf	1	2,429,028	310.80	2000Q1	2004Q1
Oklahoma	OK	icft26	1	2,429,028	201.34	2000Q1	2004Q1
						•	(cont

(cont)

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 219 \end{array}$

 $CHAPTER\ 6.\ \ INDIVIDUAL\ CHARACTERISTICS\ FILE\ (ICF)$

Table 6.6 – Continued							
			Number of		Filesizes		
State		Group	datafiles	Records	(MB)	Start	End
Oregon	OR	icf	1	4,374,229	563.52	1991Q1	2004Q1
Oregon	OR	icft26	1	$4,\!374,\!229$	357.90	1991Q1	2004Q1
Pennsylvania	PA	icf	1	11,983,407	$1,\!534.79$	1991Q1	2004Q1
Pennsylvania	PA	icft26	1	11,983,407	982.91	1991Q1	2004Q1
South Carolina	SC	icf	1	3,799,229	490.79	1998Q1	2004Q3
South Carolina	SC	icft26	1	3,799,229	314.05	1998Q1	2004Q3
Texas	TX	icf	1	19,411,438	$2,\!480.27$	1995Q1	2004Q2
Texas	TX	icft26	1	19,411,438	$1,\!560.38$	1995Q1	2004Q2
Virginia	VA	icf	1	$6,\!452,\!661$	831.88	1998Q1	2004Q1
Virginia	VA	icft26	1	$6,\!452,\!661$	535.44	1998Q1	2004Q1
Vermont	VT	icf	1	529,721	67.96	2000Q1	2004Q1
Vermont	VT	icft26	1	529,721	43.27	2000Q1	2004Q1
Washington	WA	icf	1	7,438,184	957.54	1990Q1	2004Q1
Washington	WA	icft26	1	7,438,184	605.27	1990Q1	2004Q1
Wisconsin	WI	icf	1	$5,\!437,\!229$	702.99	1990Q1	2004Q1
Wisconsin	WI	icft26	1	$5,\!437,\!229$	460.19	1990Q1	2004Q1
West Virginia	WV	icf	1	1,428,748	183.60	1997Q1	2004Q1
West Virginia	WV	icft26	1	1,428,748	118.07	1997Q1	2004Q1

 $Page\ 164$ $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

6.3 HELPFUL PROGRAMS

The following programs might be found to be useful when using the data.

6.3.1 Recombining T26 data with the core ICF

The following program allows users to combine the Title 26 variables with the core ICF. This program was used in slightly modified form for quality assurance during the preparation of the data for the RDC environment.

```
/* Time-stamp: <07/05/03 23:49:08 vilhuber> */
/* $Id: 02.02.combine_icf_t26.sas 121 2007-05-04 12:18:17Z vilhu001 $ */
%macro combine_icf_t26(state=,inlib=WORK,int26=WORK);
libname INLIB "/mixedtmp/lehd/s2004/icf/&state./";
libname INT26 "/mixedtmp/lehd/s2004/icft26/&state./";
libname INPUTS (&inlib., &int26.);
libname ORIG "/mixedtmp/lehd2/s2004_obsolete/icf_commingled/&state./" access=readonly;
proc sort data= ORIG.icf_&state out= icf_orig(compress=yes);
by pik;
run;
data work.merged(sortedby=pik state);
merge INPUTS.icf_&state._t26 INPUTS.icf_&state.;
by pik state;
run;
proc contents data=icf_orig;
proc contents data=work.merged;
run;
*proc compare data=icf_orig briefsummary compare=work.merged;
*run;
%mend;
/* example - this works for all states */
libname temp '/temporary/saswork1/snapshot';
options mprint symbolgen;
%combine_icf_t26(state=al,inlib=INLIB,int26=INT26);
```

6.3.2 Selecting a random subsample of persons

The following program allows users to select a random sample of approximately one percent of individuals on the ICF. It relies on the fact that the first two characters of the PIK are approximately uniformly distributed on [00, 99]. Note that 'AA' is a valid value for the first two characters and denotes individuals for whom no valid SSN was on file. Occurrence of such "pseudo-PIKs" varies by state.

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$CHAPTER\ 6.\ \ INDIVIDUAL\ CHARACTERISTICS\ FILE\ (ICF)$

```
%let state=ca;
libname INLIB "/mixed/lehd/s2004/icf/&state./";
data my_icf;
  set INLIB.icf_&state.(where=(substr(PIK,1,2)='01'));
run;
```

Page 166 LEHD-OVERVIEW-S2004

6.4 NOTES

Page 168 LEHD-OVERVIEW-S2004

Chapter 7. Quarterly Workforce Indicators - SEINUNIT file (QWI)

7.1 OVERVIEW

The QWI are a set of economic indicators – including employment, job creation, wages, and worker turnover – that can be queried by different levels of geography – state, county, metro, and workforce investment area – as well as by detailed industry, gender, and age of workers. The SEINUNIT file is the core dataset from which publication tables are tabulated. Public-use tabulations are not available in the RDC.

 $\begin{array}{l} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 219 \end{array}$

Page 169

7.2 DATA SET DESCRIPTIONS

7.2.1 Coverage of QWI

QWI data are available for all states that are LED-state partners, however, not every state is currently a LED-state partner. The QWI are built upon wage records in the UI system and information from state ES-202 data. The universe of QWI data is UI-covered earnings. UI coverage is broad, covering over 90% of total wage and salary civilian jobs.

When QWI private industry employment numbers are compared with other employment data, exclusions to UI coverage should be taken into account. Federal government employment is not generally included. Exempted employment varies slightly from state to state due to variations in state unemployment laws, but generally also excludes many farmers and agricultural employees, domestic workers, self-employed non-agricultural workers, members of the Armed Services, some state and local government employees as well as certain types of nonprofit employers and religious organizations (which are given a choice of coverage or noncoverage in a number of states). See "Employment that is not covered by state unemployment" (LEHD TP-2007-04) for a more detailed discussion.

7.2.2 Naming scheme

Describe the naming scheme.

qwi_zz_seinunit.sas7bdat

ZZ stands for the state postal abbreviation, and YYYY for a calendar year. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

7.2.3 Data location

The files are stored in two main directories, with state-specific subdirectories:

qwi/ZZ/

On the RDC network, the directory can be found under

/mixed/lehd/current

7.2.4 Main dataset: QWI_ZZ_SEINUNIT

The QWI_ZZ_SEINUNIT file (LEHD internal name: UFFb) is a file at the SEINUNIT level, providing detailed statistics for an establishment (SEIN + SEINUNIT) at every combination of SEX x AGEGROUP. Age groups are defined using the WIA categorization. The agegroup and sex margins are represented as variable arrays in the UFFb.

Record identifier YEAR QUARTER SEIN SEINUNIT

Sort order YEAR QUARTER SEIN SEINUNIT

Entity Establishment

Unique Entity Key SEIN SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
=0 from ECF_SEIN, =1 if from ECF_SEINUNIT, =z	UNIT_DETAIL_FLAG	07525	1	A/N
not found				

Page 170 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 1. QUARTERET WORKFORCE INDICA.			1	
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Accessions for Female and age 14-18	A_A2A01	01880	4	N
Accessions for Female and age 14-99	A_A2A00	01868	4	N
Accessions for Female and age 19-21	A_A2A02	01892	4	N
Accessions for Female and age 22-24	A_A2A03	01904	4	N
Accessions for Female and age 25-34	A_A2A04	01916	4	N
Accessions for Female and age 35-44	A_A2A05	01928	4	N
Accessions for Female and age 45-54	A_A2A06	01940	4	N
Accessions for Female and age 55-64	A_A2A07	01952	4	\mathbf{N}
Accessions for Female and age 65-99	A_A2A08	01964	4	N
Accessions for Male and Female and age 14-18	A_A0A01	01872	4	N
Accessions for Male and Female and age 14-99	A_A0A00	01860	4	\mathbf{N}
Accessions for Male and Female and age 19-21	A_A0A02	01884	4	\mathbf{N}
Accessions for Male and Female and age 22-24	A_A0A03	01896	4	N
Accessions for Male and Female and age 25-34	A_A0A04	01908	4	N
Accessions for Male and Female and age 35-44	A_A0A05	01920	4	N
Accessions for Male and Female and age 45-54	A_A0A06	01932	4	N
Accessions for Male and Female and age 55-64	A_A0A07	01944	4	N
Accessions for Male and Female and age 65-99	A_A0A08	01956	4	N
Accessions for Male and age 14-18	A_A1A01	01876	4	N
Accessions for Male and age 14-99	A_A1A00	01864	4	N
Accessions for Male and age 19-21	A_A1A02	01888	4	N
Accessions for Male and age 22-24	A_A1A03	01900	4	N
Accessions for Male and age 25-34	A_A1A04	01912	4	N
Accessions for Male and age 35-44	A_A1A05	01924	4	N
Accessions for Male and age 45-54	A_A1A06	01936	4	N
Accessions for Male and age 55-64	A_A1A07	01948	4	N
Accessions for Male and age 65-99	A_A1A08	01960	4	N
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A01$	05120	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A00$	05108	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A02$	05132	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A03$	05144	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	BDOT_A2A04	05156	4	N
pression for Female and		00-00		
Alternate definition of B that does not reflect flow sup-	$\mathtt{BDOT_A2A05}$	05168	4	N
pression for Female and	55 0 1 <u>1 1 1 1 1 1 0 0</u>	00100	-	
Alternate definition of B that does not reflect flow sup-	BDOT_A2A06	05180	4	N
pression for Female and	55 0 1 <u>1 1 1 1 1 1 0 0</u>	00100	-	
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A07$	05192	4	N
pression for Female and	550121121101	00102	-	1,
Alternate definition of B that does not reflect flow sup-	BDOT_A2A08	05204	4	N
pression for Female and	BB0121121100	00201	1	1,
Alternate definition of B that does not reflect flow sup-	BDOT_A0A01	05112	4	N
pression for Male and Fe	22012101101	00112	T	11
Alternate definition of B that does not reflect flow sup-	BDOT_A0A00	05100	4	N
pression for Male and Fe	22012101100	00100	T	11
problem for white and re				

LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Alternate definition of B that does not reflect flow sup-	BDOT_A0A02	05124	4	N
pression for Male and Fe	BB0121101102	00121	1	
Alternate definition of B that does not reflect flow sup-	BDOT_A0A03	05136	4	N
pression for Male and Fe		33233	_	
Alternate definition of B that does not reflect flow sup-	BDOT_A0A04	05148	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$\mathtt{BDOT_A0A05}$	05160	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$BDOT_A0A06$	05172	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A0A07	05184	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A0A08	05196	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A01	05116	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A00	05104	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	$\mathtt{BDOT_A1A02}$	05128	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A03	05140	4	\mathbf{N}
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A04	05152	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A05	05164	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A06	05176	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A07	05188	4	N
pression for Male and ag	1.1.1.00			
Alternate definition of B that does not reflect flow sup-	BDOT_A1A08	05200	4	N
pression for Male and ag	10101	07000		3.7
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A01$	05228	4	N
pression for Female and	TD 0.T. A 0.A 0.0	05016	4	TN T
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A00$	05216	4	N
pression for Female and	PDOT 49409	05240	1	N
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A02$	03240	4	IN
pression for Female and Alternate definition of E that does not reflect flow sup-	EDOT_A2A03	05252	4	N
pression for Female and	EDUT_A2A03	05252	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A04	05264	4	N
pression for Female and	EDUI_AZAU4	05204	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A05	05276	4	N
pression for Female and	ED01_1121100	00210	-	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A06	05288	4	N
pression for Female and	22012121100	00200	Ŧ	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A07	05300	4	N
pression for Female and	···	00000	<u>*</u>	
Alternate definition of E that does not reflect flow sup-	EDOT_A2A08	05312	4	N
pression for Female and		-		
-				

 $Page\ 172$ $LEHD ext{-}OVERVIEW ext{-}S2004$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
1 lord name	reference name	position	size	type
Alternate definition of E that does not reflect flow sup-	EDOT_A0A01	05220	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A00$	05208	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A02$	05232	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A03$	05244	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A04$	05256	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A05$	05268	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A06$	05280	4	N
pression for Male and Fe	4040-			
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A07$	05292	4	N
pression for Male and Fe	10100	07004		3.7
Alternate definition of E that does not reflect flow sup-	EDOT_A0A08	05304	4	N
pression for Male and Fe	TD 0 T A 1 A 0 1	05004	4	N.T.
Alternate definition of E that does not reflect flow sup-	EDOT_A1A01	05224	4	N
pression for Male and ag	EDOT_A1A00	05212	4	N
Alternate definition of E that does not reflect flow suppression for Mala and ag	EDOT_ATAU0	03212	4	N
pression for Male and ag Alternate definition of E that does not reflect flow sup-	EDOT_A1A02	05236	4	N
pression for Male and ag	EDUI_AIAU2	05250	4	IN
Alternate definition of E that does not reflect flow sup-	EDOT_A1A03	05248	4	N
pression for Male and ag	EDOTENTIOO	00240	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A1A04	05260	4	N
pression for Male and ag		00200	-	-,
Alternate definition of E that does not reflect flow sup-	EDOT_A1A05	05272	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A06	05284	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A07	05296	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A08	05308	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A01$	05336	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A00$	05324	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A02$	05348	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A03$	05360	4	N
pression for Female and	10101	02020		3.7
Alternate definition of F that does not reflect flow sup-	FDOT_A2A04	05372	4	N
pression for Female and	TD 07 40405	05904	4	N.T.
Alternate definition of F that does not reflect flow sup-	FDOT_A2A05	05384	4	N
pression for Female and Alternate definition of F that does not reflect flow sup-	FDOT_A2A06	05396	1	N
pression for Female and	FDUI_A2AUU	09990	4	11
pression for remaic and				

LEHD-OVERVIEW-S2004

 $Page\ 173$ Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	FILE (QW.	Data
r ieid flame	reference name	position	size	type
Alternate definition of F that does not reflect flow sup-	FDOT_A2A07	05408	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	FDOT_A $2A08$	05420	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A0A01$	05328	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A0A00$	05316	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A0A02$	05340	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	FDOT_A0A03	05352	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A04$	05364	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A05$	05376	4	N
pression for Male and Fe	4.0.4.0.0			
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A06$	05388	4	N
pression for Male and Fe	A O A O T	05.400	4	N.T.
Alternate definition of F that does not reflect flow sup-	FDOT_A0A07	05400	4	N
pression for Male and Fe	FD 0.7 A 0.4.00	07410	4	NT
Alternate definition of F that does not reflect flow sup-	FDOT_A0A08	05412	4	N
pression for Male and Fe	FDOT_A1A01	05332	4	NT
Alternate definition of F that does not reflect flow sup- pression for Male and ag	FDOT_ATAUT	00002	4	N
Alternate definition of F that does not reflect flow sup-	FDOT_A1A00	05320	4	N
pression for Male and ag	FD01=111100	00020	4	11
Alternate definition of F that does not reflect flow sup-	FDOT_A1A02	05344	4	N
pression for Male and ag	15012111102	00011	-	11
Alternate definition of F that does not reflect flow sup-	FDOT_A1A03	05356	4	N
pression for Male and ag			_	
Alternate definition of F that does not reflect flow sup-	FDOT_A1A04	05368	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A1A05$	05380	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_A1A06	05392	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A1A07$	05404	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_A1A08	05416	4	N
pression for Male and ag				
Average accession rate for Female and age 14-18	ARA2A01	01988	4	N
Average accession rate for Female and age 14-99	ARA2A00	01976	4	N
Average accession rate for Female and age 19-21	AR_A2A02	02000	4	N
Average accession rate for Female and age 22-24	AR_A2A03	02012	4	N
Average accession rate for Female and age 25-34	AR_A2A04	02024	4	N
Average accession rate for Female and age 35-44	AR_A2A05	02036	4	N
Average accession rate for Female and age 45-54	AR_A2A06	02048	4	N
Average accession rate for Female and age 55-64	AR_A2A07	02060	4	N
Average accession rate for Female and age 65-99	AR_A2A08	02072	4	N

Page 174 $LEHD ext{-}OVERVIEW ext{-}S2004$

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average accession rate for Male and Female and age 14-18	AR_A0A01	01980	4	N
Average accession rate for Male and Female and age 14-99	AR_A0A00	01968	4	N
Average accession rate for Male and Female and age	AR_A0A02	01992	4	N
19-21 Average accession rate for Male and Female and age	AR_A0A03	02004	4	N
22-24 Average accession rate for Male and Female and age 25-34	AR_A0A04	02016	4	N
Average accession rate for Male and Female and age 35-44	AR_A0A05	02028	4	N
Average accession rate for Male and Female and age 45-54	AR_A0A06	02040	4	N
Average accession rate for Male and Female and age 55-64	AR_A0A07	02052	4	N
Average accession rate for Male and Female and age 65-99	AR_A0A08	02064	4	N
Average accession rate for Male and age 14-18	AR_A1A01	01984	4	N
Average accession rate for Male and age 14-99	AR_A1A00	01972	4	N
Average accession rate for Male and age 19-21	AR_A1A02	01996	4	N
Average accession rate for Male and age 22-24	AR_A1A03	02008	4	N
Average accession rate for Male and age 25-34	AR_A1A04	02020	4	N
Average accession rate for Male and age 35-44	AR_A1A05	02032	4	N
Average accession rate for Male and age 45-54	AR_A1A06	02044	4	N
Average accession rate for Male and age 55-64	AR_A1A07	02056	$\stackrel{1}{4}$	N
Average accession rate for Male and age 65-99	AR_A1A08	02068	$\overline{4}$	N
Average employment for Female and age 14-18	EBAR_A2A01	00584	4	N
Average employment for Female and age 14-99	EBAR_A2A00	00572	$\overline{4}$	N
Average employment for Female and age 19-21	EBAR_A2A02	00596	4	N
Average employment for Female and age 22-24	EBAR_A2A03	00608	4	N
Average employment for Female and age 25-34	EBAR_A2A04	00620	4	N
Average employment for Female and age 35-44	EBAR_A2A05	00632	$\overline{4}$	N
Average employment for Female and age 45-54	EBAR_A2A06	00644	$\overline{4}$	N
Average employment for Female and age 55-64	EBAR_A2A07	00656	4	N
Average employment for Female and age 65-99	EBAR_A2A08	00668	4	N
Average employment for Male and Female and age 14-18	EBAR_A0A01	00576	4	N
Average employment for Male and Female and age 14- 99	EBAR_A0A00	00564	4	N
Average employment for Male and Female and age 19-21	EBAR_A0A02	00588	4	N
Average employment for Male and Female and age 22-24	EBAR_A0A03	00600	4	N
Average employment for Male and Female and age 25-34	EBAR_A0A04	00612	4	N
Average employment for Male and Female and age 35-	EBAR_A0A05	00624	4	N
Average employment for Male and Female and age 45-54	EBAR_A0A06	00636	4	N

LEHD-OVERVIEW-S2004

 $Page\ 175$ Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average employment for Male and Female and age 55-	EBAR_A0A07	00648	4	N
64				
Average employment for Male and Female and age 65-99	EBAR_A0A08	00660	4	N
Average employment for Male and age 14-18	EBAR_A1A01	00580	4	N
Average employment for Male and age 14-99	EBAR_A1A00	00568	4	N
Average employment for Male and age 19-21	EBAR_A1A02	00592	4	N
Average employment for Male and age 22-24	EBAR_A1A03	00604	4	N
Average employment for Male and age 25-34	EBAR_A1A04	00616	4	N
Average employment for Male and age 35-44	EBAR_A1A05	00628	4	N
Average employment for Male and age 45-54	EBAR_A1A06	00640	4	N
Average employment for Male and age 55-64	EBAR_A1A07	00652	4	N
Average employment for Male and age 65-99	EBAR_A1A08	00664	4	N
Average full-quarter employment for Female and age 14-18	FBAR_A2A01	01232	4	N
Average full-quarter employment for Female and age 14-99	FBAR_A2A00	01220	4	N
Average full-quarter employment for Female and age 19-21	FBAR_A2A02	01244	4	N
Average full-quarter employment for Female and age 22-24	FBAR_A2A03	01256	4	N
Average full-quarter employment for Female and age 25-34	FBAR_A2A04	01268	4	N
Average full-quarter employment for Female and age 35-44	FBAR_A2A05	01280	4	N
Average full-quarter employment for Female and age 45-54	FBAR_A2A06	01292	4	N
Average full-quarter employment for Female and age 55-64	FBAR_A2A07	01304	4	N
Average full-quarter employment for Female and age 65-99	FBAR_A2A08	01316	4	N
Average full-quarter employment for Male and Female and age 14-18	FBAR_A0A01	01224	4	N
Average full-quarter employment for Male and Female and age 14-99	FBAR_A0A00	01212	4	N
Average full-quarter employment for Male and Female and age 19-21	FBAR_A0A02	01236	4	N
Average full-quarter employment for Male and Female and age 22-24	FBAR_A0A03	01248	4	N
Average full-quarter employment for Male and Female and age 25-34	FBAR_A0A04	01260	4	N
Average full-quarter employment for Male and Female and age 35-44	FBAR_A0A05	01272	4	N
Average full-quarter employment for Male and Female and age 45-54	FBAR_A0A06	01284	4	N
Average full-quarter employment for Male and Female and age 55-64	FBAR_A0A07	01296	4	N
Average full-quarter employment for Male and Female and age 65-99	FBAR_A0A08	01308	4	N

Page 176 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average full-quarter employment for Male and age 14-18	FBAR_A1A01	01228	4	N
Average full-quarter employment for Male and age 14-99	FBAR_A1A00	01216	4	N
Average full-quarter employment for Male and age 19-21	FBAR_A1A02	01240	4	N
Average full-quarter employment for Male and age 22-24	FBAR_A1A03	01252	4	N
Average full-quarter employment for Male and age 25-34	FBAR_A1A04	01264	4	N
Average full-quarter employment for Male and age 35-44	FBAR_A1A05	01276	4	N
Average full-quarter employment for Male and age 45-54	FBAR_A1A06	01288	4	N
Average full-quarter employment for Male and age 55-64	FBAR_A1A07	01300	4	N
Average full-quarter employment for Male and age 65- 99	FBAR_A1A08	01312	4	N
Average full-quarter employment growth rate for Female and age 14-18	FG_A2A01	01340	4	N
Average full-quarter employment growth rate for Female and age 14-99	FG_A2A00	01328	4	N
Average full-quarter employment growth rate for Female and age 19-21	FG_A2A02	01352	4	N
Average full-quarter employment growth rate for Female and age 22-24	FG_A2A03	01364	4	N
Average full-quarter employment growth rate for Female and age 25-34	FG_A2A04	01376	4	N
Average full-quarter employment growth rate for Female and age 35-44	FG_A2A05	01388	4	N
Average full-quarter employment growth rate for Female and age 45-54	FG_A2A06	01400	4	N
Average full-quarter employment growth rate for Fe-	FG_A2A07	01412	4	N
male and age 55-64 Average full-quarter employment growth rate for Ferminand and 67-00	FG_A2A08	01424	4	N
male and age 65-99 Average full-quarter employment growth rate for Male	FG_A0A01	01332	4	N
and Female and age 14-18 Average full-quarter employment growth rate for Male	FG_A0A00	01320	4	N
and Female and age 14-99 Average full-quarter employment growth rate for Male	FG_A0A02	01344	4	N
and Female and age 19-21 Average full-quarter employment growth rate for Male	FG_A0A03	01356	4	N
and Female and age 22-24 Average full-quarter employment growth rate for Male	FG_A0A04	01368	4	N
and Female and age 25-34 Average full-quarter employment growth rate for Male	FG_A0A05	01380	4	N
and Female and age 35-44 Average full-quarter employment growth rate for Male	FG_A0A06	01392	4	N
and Female and age 45-54				

LEHD-OVERVIEW-S2004

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK			, , -	
Field name	Data dictionary	Starting	Field	Data
Average full-quarter employment growth rate for Male	reference name FG_A0A07	position 01404	size 4	type
and Female and age 55-64	rG_AUAU1	01404	4	IN
Average full-quarter employment growth rate for Male	FG_A0A08	01416	4	N
and Female and age 65-99 Average full-quarter employment growth rate for Male	FG_A1A01	01336	4	N
and age 14-18 Average full-quarter employment growth rate for Male	FG_A1A00	01324	4	N
and age 14-99 Average full-quarter employment growth rate for Male	FG_A1A02	01348	4	N
and age 19-21 Average full-quarter employment growth rate for Male	FG_A1A03	01360	4	N
and age 22-24 Average full-quarter employment growth rate for Male	FG_A1A04	01372	4	N
and age 25-34				
Average full-quarter employment growth rate for Male and age 35-44	FG_A1A05	01384	4	N
Average full-quarter employment growth rate for Male and age 45-54	FG_A1A06	01396	4	N
Average full-quarter employment growth rate for Male and age 55-64	FG_A1A07	01408	4	N
Average full-quarter employment growth rate for Male	FG_A1A08	01420	4	N
and age 65-99 Average full-quarter job creation rate for Female and	FJCR_A2A01	01556	4	N
age 14-18 Average full-quarter job creation rate for Female and	FJCR_A2A00	01544	4	N
age 14-99 Average full-quarter job creation rate for Female and	FJCR_A2A02	01568	4	N
age 19-21 Average full-quarter job creation rate for Female and	FJCR_A2A03	01580	4	N
age 22-24				
Average full-quarter job creation rate for Female and age 25-34	FJCR_A2A04	01592	4	N
Average full-quarter job creation rate for Female and age 35-44	FJCR_A2A05	01604	4	N
Average full-quarter job creation rate for Female and age 45-54	FJCR_A2A06	01616	4	N
Average full-quarter job creation rate for Female and age 55-64	FJCR_A2A07	01628	4	N
Average full-quarter job creation rate for Female and age 65-99	$FJCR_A2A08$	01640	4	N
Average full-quarter job creation rate for Male and	FJCR_A0A01	01548	4	N
Female and age 14-18 Average full-quarter job creation rate for Male and	FJCR_A0A00	01536	4	N
Female and age 14-99 Average full-quarter job creation rate for Male and	FJCR_A0A02	01560	4	N
Female and age 19-21 Average full-quarter job creation rate for Male and	FJCR_A0A03	01572	4	N
Female and age 22-24 Average full-quarter job creation rate for Male and	FJCR_A0A04	01584	4	N
Female and age 25-34	1 001(_110A04	01004	'±	11

 $Page\ 178$ $LEHD ext{-}OVERVIEW ext{-}S2004$

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERET WORKFORCE INDICA		(• /	T =	T = :
Field name	Data dictionary reference name	Starting position	Field size	Data type
Average full-quarter job creation rate for Male and	FJCR_A0A05	01596	4	N
Female and age 35-44				
Average full-quarter job creation rate for Male and	$FJCR_A0A06$	01608	4	N
Female and age 45-54				
Average full-quarter job creation rate for Male and	$FJCR_A0A07$	01620	4	N
Female and age 55-64	EICD AOAOO	01690	4	NT
Average full-quarter job creation rate for Male and Female and age 65-99	FJCR_A0A08	01632	4	N
Average full-quarter job creation rate for Male and age	FJCR_A1A01	01552	4	N
14-18	1 0 01021111101	01002	-	- 1
Average full-quarter job creation rate for Male and age	FJCR_A1A00	01540	4	N
14-99				
Average full-quarter job creation rate for Male and age	$FJCR_A1A02$	01564	4	N
19-21	77C7 14100			
Average full-quarter job creation rate for Male and age	FJCR_A1A03	01576	4	N
22-24 Average full-quarter job creation rate for Male and age	FJCR_A1A04	01588	4	N
25-34	rJCn_A1A04	01366	4	11
Average full-quarter job creation rate for Male and age	FJCR_A1A05	01600	4	N
35-44		0_00	_	
Average full-quarter job creation rate for Male and age	$FJCR_A1A06$	01612	4	N
45-54				
Average full-quarter job creation rate for Male and age	$FJCR_A1A07$	01624	4	N
55-64				
Average full-quarter job creation rate for Male and age	FJCR_A1A08	01636	4	N
65-99 Average full-quarter job destruction rate for Female	FJDR_A2A01	01772	4	N
and age 14-18	1 3D10_1121101	01112	4	11
Average full-quarter job destruction rate for Female	$FJDR_A2A00$	01760	4	N
and age 14-99				
Average full-quarter job destruction rate for Female	$FJDR_A2A02$	01784	4	N
and age 19-21				
Average full-quarter job destruction rate for Female	FJDRA2A03	01796	4	N
and age 22-24	EIDD ASAGA	01808	4	N
Average full-quarter job destruction rate for Female and age 25-34	FJDR_A2A04	01000	4	IN
Average full-quarter job destruction rate for Female	FJDR_A2A05	01820	4	N
and age 35-44	1001001121100	01020	<u>.</u>	1,
Average full-quarter job destruction rate for Female	$FJDR_A2A06$	01832	4	N
and age 45-54				
Average full-quarter job destruction rate for Female	$FJDR_A2A07$	01844	4	N
and age 55-64	EIDD AGAGG	04050		3.7
Average full-quarter job destruction rate for Female	FJDR_A2A08	01856	4	N
and age 65-99 Average full-quarter job destruction rate for Male and	FJDR_A0A01	01764	4	N
Female and age 14-18	r JDI(_A0A01	01704	4	11
Average full-quarter job destruction rate for Male and	FJDR_A0A00	01752	4	N
Female and age 14-99		~=. • -	_	
Average full-quarter job destruction rate for Male and	$FJDR_A0A02$	01776	4	N
Female and age 19-21				

LEHD-OVERVIEW-S2004

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)				
Field name	Data dictionary	Starting	Field	Data
A	reference name	position	size	type
Average full-quarter job destruction rate for Male and	FJDR_A0A03	01788	4	N
Female and age 22-24	EIDD AOAOA	01900	4	N
Average full-quarter job destruction rate for Male and Female and age 25-34	FJDR_A0A04	01800	4	IN
9	FJDR_A0A05	01812	4	N
Average full-quarter job destruction rate for Male and Female and age 35-44	FJDR_A0A00	01812	4	IN
Average full-quarter job destruction rate for Male and	FJDR_A0A06	01824	4	N
Female and age 45-54	rJDn_A0A00	01624	4	11
Average full-quarter job destruction rate for Male and	FJDR_A0A07	01836	4	N
Female and age 55-64	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01000	-	11
Average full-quarter job destruction rate for Male and	FJDR_A0A08	01848	4	N
Female and age 65-99	1 3111111111111111111111111111111111111	01040	-	11
Average full-quarter job destruction rate for Male and	FJDR_A1A01	01768	4	N
age 14-18		01100	1	11
Average full-quarter job destruction rate for Male and	FJDR_A1A00	01756	4	N
age 14-99	1 0 2 10 11 11 10 0	01100	1	11
Average full-quarter job destruction rate for Male and	FJDR_A1A02	01780	4	N
age 19-21	10010=1111102	01100	1	11
Average full-quarter job destruction rate for Male and	FJDR_A1A03	01792	4	N
age 22-24				
Average full-quarter job destruction rate for Male and	FJDR_A1A04	01804	4	N
age 25-34				
Average full-quarter job destruction rate for Male and	FJDR_A1A05	01816	4	N
age 35-44				
Average full-quarter job destruction rate for Male and	FJDR_A1A06	01828	4	N
age 45-54				
Average full-quarter job destruction rate for Male and	$FJDR_A1A07$	01840	4	N
age 55-64				
Average full-quarter job destruction rate for Male and	$FJDR_A1A08$	01852	4	N
age 65-99				
Average job creation rate for Female and age 14-18	JCR_A2A01	00800	4	\mathbf{N}
Average job creation rate for Female and age 14-99	JCR_A2A00	00788	4	N
Average job creation rate for Female and age 19-21	JCR_A2A02	00812	4	N
Average job creation rate for Female and age 22-24	JCR_A2A03	00824	4	N
Average job creation rate for Female and age 25-34	JCR_A2A04	00836	4	N
Average job creation rate for Female and age 35-44	$ m JCR_A2A05$	00848	4	N
Average job creation rate for Female and age 45-54	JCR_A2A06	00860	4	N
Average job creation rate for Female and age 55-64	JCR_A2A07	00872	4	N
Average job creation rate for Female and age 65-99	JCR_A2A08	00884	4	N
Average job creation rate for Male and Female and age	JCR_A0A01	00792	4	N
14-18				
Average job creation rate for Male and Female and age	JCR_A0A00	00780	4	N
14-99				
Average job creation rate for Male and Female and age	JCR_A0A02	00804	4	N
19-21				
Average job creation rate for Male and Female and age	JCR_A0A03	00816	4	N
22-24				
Average job creation rate for Male and Female and age	JCR_A0A04	00828	4	N
25-34				

Page 180 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average job creation rate for Male and Female and age 35-44	JCR_A0A05	00840	4	N
Average job creation rate for Male and Female and age $45-54$	JCR_A0A06	00852	4	N
Average job creation rate for Male and Female and age 55-64	JCR_A0A07	00864	4	N
Average job creation rate for Male and Female and age 65-99	JCR_A0A08	00876	4	N
Average job creation rate for Male and age 14-18	JCR_A1A01	00796	4	N
Average job creation rate for Male and age 14-99	JCR_A1A00	00784	4	N
Average job creation rate for Male and age 19-21	JCR_A1A02	00808	$\overline{4}$	N
Average job creation rate for Male and age 22-24	JCR_A1A03	00820	4	N
Average job creation rate for Male and age 25-34	JCR_A1A04	00832	4	N
Average job creation rate for Male and age 35-44	JCR_A1A05	00844	4	N
Average job creation rate for Male and age 45-54	JCR_A1A06	00856	4	N
Average job creation rate for Male and age 55-64	JCR_A1A07	00868	4	N
Average job creation rate for Male and age 65-99	JCR_A1A08	00880	4	N
Average job destruction rate for Female and age 14-18	JDR_A2A01	01016	4	N
Average job destruction rate for Female and age 14-99	JDR_A2A00	01004	4	N
Average job destruction rate for Female and age 19-21	JDR_A2A02	01028	4	N
Average job destruction rate for Female and age 22-24	$\rm JDR_A2A03$	01040	4	N
Average job destruction rate for Female and age 25-34	JDR_A2A04	01052	4	N
Average job destruction rate for Female and age 35-44	JDR_A2A05	01064	4	N
Average job destruction rate for Female and age 45-54	JDR_A2A06	01076	4	N
Average job destruction rate for Female and age 55-64	JDR_A2A07	01088	4	N
Average job destruction rate for Female and age 65-99	JDR_A2A08	01100	4	N
Average job destruction rate for Male and Female and	JDR_A0A01	01008	4	N
age 14-18 Average job destruction rate for Male and Female and	JDR_A0A00	00996	4	N
age 14-99 Average job destruction rate for Male and Female and	JDR_A0A02	01020	4	N
age 19-21				
Average job destruction rate for Male and Female and age 22-24	JDR_A0A03	01032	4	N
Average job destruction rate for Male and Female and age 25-34	JDR_A0A04	01044	4	N
Average job destruction rate for Male and Female and age 35-44	$ m JDR_A0A05$	01056	4	N
Average job destruction rate for Male and Female and age 45-54	JDR_A0A06	01068	4	N

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Average job destruction rate for Male and Female and	JDR_A0A07	01080	4	N
age 55-64	3D1(_110110)	01000	-	11
Average job destruction rate for Male and Female and	JDR_A0A08	01092	4	N
age 65-99	02101101	01002	-	- 1
Average job destruction rate for Male and age 14-18	JDR_A1A01	01012	4	N
Average job destruction rate for Male and age 14-99	JDR_A1A00	01000	4	N
Average job destruction rate for Male and age 19-21	$\rm JDR_A1A02$	01024	4	N
Average job destruction rate for Male and age 22-24	JDR_A1A03	01036	4	N
Average job destruction rate for Male and age 25-34	JDR_A1A04	01048	4	N
Average job destruction rate for Male and age 35-44	$\rm JDR_A1A05$	01060	4	\mathbf{N}
Average job destruction rate for Male and age 45-54	JDR_A1A06	01072	4	N
Average job destruction rate for Male and age 55-64	JDR_A1A07	01084	4	N
Average job destruction rate for Male and age 65-99	JDR_A1A08	01096	4	N
Average rate of flow into full-quarter employment for	FAR_A2A01	02744	4	N
Female and age 14-18				
Average rate of flow into full-quarter employment for	FARA2A00	02732	4	N
Female and age 14-99				
Average rate of flow into full-quarter employment for	FAR_A2A02	02756	4	\mathbf{N}
Female and age 19-21				
Average rate of flow into full-quarter employment for	FAR_A2A03	02768	4	\mathbf{N}
Female and age 22-24				
Average rate of flow into full-quarter employment for	FAR_A2A04	02780	4	N
Female and age 25-34				
Average rate of flow into full-quarter employment for	FAR_A2A05	02792	4	N
Female and age 35-44	ELD 10100	00004	,	3.7
Average rate of flow into full-quarter employment for	FAR_A2A06	02804	4	N
Female and age 45-54	T. D. 1010	00010		3.7
Average rate of flow into full-quarter employment for	FAR_A2A07	02816	4	N
Female and age 55-64	DAD 40400	00000	4	™ T
Average rate of flow into full-quarter employment for	FAR_A2A08	02828	4	N
Female and age 65-99	EAD A0A01	00726	4	NT
Average rate of flow into full-quarter employment for	FAR_A0A01	02736	4	N
Male and Female and age 14 Average rate of flow into full-quarter employment for	FAR_A0A00	02724	4	N
Male and Female and age 14	ran_AuAuu	02124	4	11
Average rate of flow into full-quarter employment for	FAR_A0A02	02748	4	N
Male and Female and age 19	TAILAUAU2	02140	4	11
Average rate of flow into full-quarter employment for	FAR_A0A03	02760	4	N
Male and Female and age 22	17110_7107100	02100	4	11
Average rate of flow into full-quarter employment for	FAR_A0A04	02772	4	N
Male and Female and age 25	11110-1101104	02112	-	11
Average rate of flow into full-quarter employment for	FAR_A0A05	02784	4	N
Male and Female and age 35	11110=1101100	02.01	1	1,
Average rate of flow into full-quarter employment for	FAR_A0A06	02796	4	N
Male and Female and age 45				
Average rate of flow into full-quarter employment for	FAR_A0A07	02808	4	N
Male and Female and age 55				
Average rate of flow into full-quarter employment for	FAR_A0A08	02820	4	N
Male and Female and age 65				
~				

Page 182 LEHD-OVERVIEW-S2004

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average rate of flow into full-quarter employment for	FAR_A1A01	02740	4	N
Male and age 14-18	EAD 41400	00700		3.7
Average rate of flow into full-quarter employment for	FAR_A1A00	02728	4	N
Male and age 14-99	DAD 41400	00750	4	NT.
Average rate of flow into full-quarter employment for	FAR_A1A02	02752	4	N
Male and age 19-21 Average rate of flow into full-quarter employment for	FAR_A1A03	02764	4	N
Male and age 22-24	ran_Arauə	02704	4	11
Average rate of flow into full-quarter employment for	FAR_A1A04	02776	4	N
Male and age 25-34	17110_7117104	02110	4	11
Average rate of flow into full-quarter employment for	FAR_A1A05	02788	4	N
Male and age 35-44	11110_1111100	02100	-	1,
Average rate of flow into full-quarter employment for	FAR_A1A06	02800	4	N
Male and age 45-54				
Average rate of flow into full-quarter employment for	FAR_A1A07	02812	4	N
Male and age 55-64				
Average rate of flow into full-quarter employment for	FAR_A1A08	02824	4	N
Male and age 65-99				
Average rate of flow out of full-quarter employment	FSR_A2A01	02960	4	N
for Female and age 14-18				
Average rate of flow out of full-quarter employment	FSR_A2A00	02948	4	N
for Female and age 14-99				
Average rate of flow out of full-quarter employment	FSR_A2A02	02972	4	N
for Female and age 19-21				
Average rate of flow out of full-quarter employment	FSR_A2A03	02984	4	N
for Female and age 22-24	DCD AOAOA	00000	4	NT.
Average rate of flow out of full-quarter employment	FSR_A2A04	02996	4	N
for Female and age 25-34 Average rate of flow out of full-quarter employment	FSR_A2A05	03008	4	N
for Female and age 35-44	FSR_AZAU0	03008	4	11
Average rate of flow out of full-quarter employment	FSR_A2A06	03020	4	N
for Female and age 45-54	r Sit_A2A00	03020	4	11
Average rate of flow out of full-quarter employment	FSR_A2A07	03032	4	N
for Female and age 55-64	1 010-1121101	00002	1	11
Average rate of flow out of full-quarter employment	FSR_A2A08	03044	4	N
for Female and age 65-99				
Average rate of flow out of full-quarter employment	FSR_A0A01	02952	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A00	02940	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A02	02964	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A03	02976	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A04	02988	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A05	03000	4	N
for Male and Female and age	EGD AGAGG			. -
Average rate of flow out of full-quarter employment	FSR_A0A06	03012	4	N
for Male and Female and age				

CHAPTER 7. QUARTERLY WORK			` -	
Field name	Data dictionary	Starting	Field	Data
A	reference name	position	size	type
Average rate of flow out of full-quarter employment	FSR_A0A07	03024	4	N
for Male and Female and age	EGD AGAGG	00000	4	ът.
Average rate of flow out of full-quarter employment	FSR_A0A08	03036	4	N
for Male and Female and age	ECD A1A01	00050	4	78. Т
Average rate of flow out of full-quarter employment	FSR_A1A01	02956	4	N
for Male and age 14-18	EGD 41400	00044	4	ът.
Average rate of flow out of full-quarter employment	FSR_A1A00	02944	4	N
for Male and age 14-99	EQD 41400	00000	4	ът.
Average rate of flow out of full-quarter employment	FSR_A1A02	02968	4	N
for Male and age 19-21	ECD 41409	00000	4	TA T
Average rate of flow out of full-quarter employment	FSR_A1A03	02980	4	N
for Male and age 22-24	ECD A1A04	00000	4	ът.
Average rate of flow out of full-quarter employment	FSR_A1A04	02992	4	N
for Male and age 25-34	DOD A1A05	00004	4	ът.
Average rate of flow out of full-quarter employment	FSR_A1A05	03004	4	N
for Male and age 35-44	DOD 41400	00012	4	78.77
Average rate of flow out of full-quarter employment	FSR_A1A06	03016	4	N
for Male and age 45-54	ECD 4140F	00000	4	N.T.
Average rate of flow out of full-quarter employment	FSR_A1A07	03028	4	N
for Male and age 55-64	ECD A1A00	00040	4	N.T.
Average rate of flow out of full-quarter employment	FSR_A1A08	03040	4	N
for Male and age 65-99	GD 40401	0000		3.7
Average separation rate for Female and age 14-18	SR_A2A01	02204	4	N
Average separation rate for Female and age 14-99	SR_A2A00	02192	4	N
Average separation rate for Female and age 19-21	SR_A2A02	02216	4	N
Average separation rate for Female and age 22-24	SR_A2A03	02228	4	N
Average separation rate for Female and age 25-34	SR_A2A04	02240	4	N
Average separation rate for Female and age 35-44	SR_A2A05	02252	4	N
Average separation rate for Female and age 45-54	SR_A2A06	02264	4	N
Average separation rate for Female and age 55-64	SR_A2A07	02276	4	N
Average separation rate for Female and age 65-99	SR_A2A08	02288	4	N
Average separation rate for Male and Female and age	SR_A0A01	02196	4	N
14-18				• •
Average separation rate for Male and Female and age	SR_A0A00	02184	4	N
14-99	OD AOACC		٠	
Average separation rate for Male and Female and age	SR_A0A02	02208	4	N
19-21				
Average separation rate for Male and Female and age	SR_A0A03	02220	4	N
22-24				
Average separation rate for Male and Female and age	SR_A0A04	02232	4	N
25-34				
Average separation rate for Male and Female and age	SR_A0A05	02244	4	N
35-44				
Average separation rate for Male and Female and age	SR_A0A06	02256	4	N
45-54				
Average separation rate for Male and Female and age	SR_A0A07	02268	4	N
55-64				
Average separation rate for Male and Female and age	SR_A0A08	02280	4	N
65-99				
Average separation rate for Male and age 14-18	SR_A1A01	02200	4	N

 $Page\ 184$ $LEHD ext{-}OVERVIEW ext{-}S2004$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICA.	4	/	T	1
Field name	Data dictionary	Starting	Field	Data
A	reference name	position	size	type
Average separation rate for Male and age 14-99	SR_A1A00	02188	4	N
Average separation rate for Male and age 19-21	SR_A1A02	02212	4	N
Average separation rate for Male and age 22-24	SR_A1A03	02224	4	N
Average separation rate for Male and age 25-34	SR_A1A04	02236	4	N
Average separation rate for Male and age 35-44	SR_A1A05	02248	4	N
Average separation rate for Male and age 45-54	SR_A1A06	02260	4	N
Average separation rate for Male and age 55-64	SR_A1A07	02272	4	N
Average separation rate for Male and age 65-99	SR_A1A08	02284	4	N
Beginning-of-period employment for Female and age 14-18	B_A2A01	00044	4	N
Beginning-of-period employment for Female and age 14-99	B_A2A00	00032	4	N
Beginning-of-period employment for Female and age 19-21	B_A2A02	00056	4	N
Beginning-of-period employment for Female and age 22-24	B_A2A03	00068	4	N
Beginning-of-period employment for Female and age 25-34	B_A2A04	00080	4	N
Beginning-of-period employment for Female and age 35-44	B_A2A05	00092	4	N
Beginning-of-period employment for Female and age	B_A2A06	00104	4	N
45-54 Beginning-of-period employment for Female and age	B_A2A07	00116	4	N
55-64 Beginning-of-period employment for Female and age	B_A2A08	00128	4	N
65-99 Beginning-of-period employment for Male and Female	B_A0A01	00036	4	N
and age 14-18 Beginning-of-period employment for Male and Female	B_A0A00	00024	4	N
and age 14-99 Beginning-of-period employment for Male and Female	B_A0A02	00048	4	N
and age 19-21 Beginning-of-period employment for Male and Female	B_A0A03	00060	4	N
and age 22-24 Beginning-of-period employment for Male and Female	B_A0A04	00072	4	N
and age 25-34 Beginning-of-period employment for Male and Female	B_A0A05	00012	4	N
and age 35-44				
Beginning-of-period employment for Male and Female and age 45-54	B_A0A06	00096	4	N
Beginning-of-period employment for Male and Female and age 55-64	B_A0A07	00108	4	N
Beginning-of-period employment for Male and Female and age 65-99	B_A0A08	00120	4	N
Beginning-of-period employment for Male and age 14-18	B_A1A01	00040	4	N
Beginning-of-period employment for Male and age 14- 99	B_A1A00	00028	4	N
Beginning-of-period employment for Male and age 19- 21	B_A1A02	00052	4	N

CHAPTER 7. QUARTERLY WORK				
Field name	Data dictionary	Starting	Field size	Data
Beginning-of-period employment for Male and age 22-	reference name B_A1A03	position 00064	size 4	type
beginning-of-period employment for Male and age 22- 24	D_A1A05	00004	4	IN
Beginning-of-period employment for Male and age 25- 34	B_A1A04	00076	4	N
Beginning-of-period employment for Male and age 35-44	B_A1A05	00088	4	N
Beginning-of-period employment for Male and age 45-54	B_A1A06	00100	4	N
Beginning-of-period employment for Male and age 55-64	B_A1A07	00112	4	N
Beginning-of-period employment for Male and age 65- 99	B_A1A08	00124	4	N
Change in total earnings for accessions for Female and age 14-18	DWA_A2A01	03824	4	N
Change in total earnings for accessions for Female and age 14-99	DWA_A2A00	03812	4	N
Change in total earnings for accessions for Female and age 19-21	DWA_A2A02	03836	4	N
Change in total earnings for accessions for Female and age 22-24	DWA_A2A03	03848	4	N
Change in total earnings for accessions for Female and age 25-34	DWA_A2A04	03860	4	N
Change in total earnings for accessions for Female and	DWA_A2A05	03872	4	N
age 35-44 Change in total earnings for accessions for Female and	DWA_A2A06	03884	4	N
age 45-54 Change in total earnings for accessions for Female and	DWA_A2A07	03896	4	N
age 55-64 Change in total earnings for accessions for Female and	DWA_A2A08	03908	4	N
age 65-99 Change in total earnings for accessions for Male and	DWA_A0A01	03816	4	N
Female and age 14-18 Change in total earnings for accessions for Male and	DWA_A0A00	03804	4	N
Female and age 14-99 Change in total earnings for accessions for Male and	DWA_A0A02	03828	4	N
Female and age 19-21 Change in total earnings for accessions for Male and	DWA_A0A03	03840	4	N
Female and age 22-24 Change in total earnings for accessions for Male and	DWA_A0A04	03852	4	N
Female and age 25-34 Change in total earnings for accessions for Male and	DWA_A0A05	03864	4	N
Female and age 35-44 Change in total earnings for accessions for Male and	DWA_A0A06	03876	4	N
Female and age 45-54 Change in total earnings for accessions for Male and	DWA_A0A07	03888	4	N
Female and age 55-64 Change in total earnings for accessions for Male and	DWA_A0A08	03900	4	N
Female and age 65-99 Change in total earnings for accessions for Male and	DWA_A1A01	03820	4	N
age 14-18				

Page 186 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERET WORKFORCE INDICA.		· - /	D: 11	D /
Field name	Data dictionary reference name	Starting position	Field size	Data type
Change in total earnings for accessions for Male and	DWA_A1A00	03808	4	N
age 14-99	DWILITIIOO	03000	4	11
Change in total earnings for accessions for Male and	DWA_A1A02	03832	4	N
age 19-21	_ ,, <u>_</u>	3333_		
Change in total earnings for accessions for Male and	DWA_A1A03	03844	4	N
age 22-24				
Change in total earnings for accessions for Male and	DWA_A1A04	03856	4	N
age $25-34$				
Change in total earnings for accessions for Male and	DWA_A1A05	03868	4	N
age 35-44				
Change in total earnings for accessions for Male and	DWA_A1A06	03880	4	N
age 45-54				
Change in total earnings for accessions for Male and	DWA_A1A07	03892	4	N
age 55-64	****			
Change in total earnings for accessions for Male and	DWA_A1A08	03904	4	N
age 65-99	THEO ADAD1	0.400.4		3. T
Change in total earnings for full-quarter separations	$DWFS_A2A01$	04904	4	N
for Female and age 14-18	DWEC ADAGO	04892	4	N
Change in total earnings for full-quarter separations for Female and age 14-99	DWFS_A2A00	04892	4	N
Change in total earnings for full-quarter separations	DWFS_A2A02	04916	4	N
for Female and age 19-21	DWF D_A2A02	04310	4	11
Change in total earnings for full-quarter separations	DWFS_A2A03	04928	4	N
for Female and age 22-24	DW1 02121100	01020		1,
Change in total earnings for full-quarter separations	$DWFS_A2A04$	04940	4	N
for Female and age 25-34	_ ,, _ ,, , , ,	0 -0 -0	_	
Change in total earnings for full-quarter separations	$DWFS_A2A05$	04952	4	N
for Female and age 35-44				
Change in total earnings for full-quarter separations	$DWFS_A2A06$	04964	4	N
for Female and age 45-54				
Change in total earnings for full-quarter separations	$DWFS_A2A07$	04976	4	N
for Female and age 55-64				
Change in total earnings for full-quarter separations	$DWFS_A2A08$	04988	4	N
for Female and age 65-99				
Change in total earnings for full-quarter separations	DWFS_A0A01	04896	4	N
for Male and Female and ag	TITE A A A A A	0.400.4	4	3.7
Change in total earnings for full-quarter separations	DWFS_A0A00	04884	4	N
for Male and Female and ag	- IUDO A 0 A 0 0	0.4000	4	N.T.
Change in total earnings for full-quarter separations	DWFS_A0A02	04908	4	N
for Male and Female and ag Change in total earnings for full-quarter separations	DWFS_A0A03	04920	4	N
for Male and Female and ag	DWFS_AUAU3	04920	4	IN
Change in total earnings for full-quarter separations	DWFS_A0A04	04932	4	N
for Male and Female and ag	D W1 02101104	04302	-	11
Change in total earnings for full-quarter separations	DWFS_A0A05	04944	4	N
for Male and Female and ag	2 ,, 1 , 2 2 1 0 1 1 0 0	01011	-	- 1
Change in total earnings for full-quarter separations	DWFS_A0A06	04956	4	N
for Male and Female and ag				
Change in total earnings for full-quarter separations	$DWFS_A0A07$	04968	4	N
for Male and Female and ag				

Field name		Starting	Field	Data
Field name	Data dictionary reference name	position	size	type
Change in total earnings for full-quarter separations	DWFS_A0A08	04980	4	N
for Male and Female and ag	DWF5_1101100	04300	4	11
Change in total earnings for full-quarter separations	DWFS_A1A01	04900	4	N
for Male and age 14-18	DWIGHIIIOI	01000	1	11
Change in total earnings for full-quarter separations	DWFS_A1A00	04888	4	N
for Male and age 14-99	D 111 D 21111100	01000	-	11
Change in total earnings for full-quarter separations	DWFS_A1A02	04912	4	N
for Male and age 19-21	_ ,,_ ,_ ,	0 -0	_	
Change in total earnings for full-quarter separations	DWFS_A1A03	04924	4	N
for Male and age 22-24				
Change in total earnings for full-quarter separations	DWFS_A1A04	04936	4	N
for Male and age 25-34				
Change in total earnings for full-quarter separations	DWFS_A1A05	04948	4	N
for Male and age 35-44				
Change in total earnings for full-quarter separations	DWFS_A1A06	04960	4	N
for Male and age 45-54				
Change in total earnings for full-quarter separations	DWFS_A1A07	04972	4	N
for Male and age 55-64				
Change in total earnings for full-quarter separations	DWFS_A1A08	04984	4	N
for Male and age 65-99				
Change in total earnings for separations for Female	DWS_A2A01	04688	4	N
and age 14-18				
Change in total earnings for separations for Female	DWS_A2A00	04676	4	N
and age 14-99				
Change in total earnings for separations for Female	DWS_A2A02	04700	4	N
and age 19-21				
Change in total earnings for separations for Female	DWS_A2A03	04712	4	N
and age 22-24				
Change in total earnings for separations for Female	DWS_A2A04	04724	4	N
and age 25-34				
Change in total earnings for separations for Female	DWS_A2A05	04736	4	N
and age 35-44				
Change in total earnings for separations for Female	DWS_A2A06	04748	4	N
and age 45-54				
Change in total earnings for separations for Female	DWS_A2A07	04760	4	N
and age 55-64				
Change in total earnings for separations for Female	DWS_A2A08	04772	4	N
and age 65-99	TTT0 1 0 1 0 1			•
Change in total earnings for separations for Male and	DWS_A0A01	04680	4	N
Female and age 14-18	TITO A O A O O	0.4000		3.7
Change in total earnings for separations for Male and	DWS_A0A00	04668	4	N
Female and age 14-99		0.4600	4	NT
Change in total earnings for separations for Male and	DWS_A0A02	04692	4	N
Female and age 19-21	DIVIC ADADA	0.470.4	4	NT
Change in total earnings for separations for Male and	DWS_A0A03	04704	4	N
Female and age 22-24 Change in total carnings for separations for Male and	DWS_A0A04	04716	1	N
Change in total earnings for separations for Male and Female and age 25-34	ש אי א_AUAU4	04716	4	N
Change in total earnings for separations for Male and	DWS_A0A05	04728	4	N
Female and age 35-44	DWDIMOO	04140	4	11
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Page 188

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
Change in total compines for conceptions for M-1	reference name DWS_A0A06	position	size	type
Change in total earnings for separations for Male and Female and age 45-54	DWS_A0A06	04740	4	Γ
Change in total earnings for separations for Male and	DWS_A0A07	04752	4	N
Female and age 55-64	DWS_AUAUT	04102	4	1
Change in total earnings for separations for Male and	DWS_A0A08	04764	4	N
Female and age 65-99	D VV D 2101100	01101	-1	1
Change in total earnings for separations for Male and	DWS_A1A01	04684	4	N
age 14-18		0 200 2	_	_
Change in total earnings for separations for Male and	DWS_A1A00	04672	4	ľ
age 14-99				
Change in total earnings for separations for Male and	DWS_A1A02	04696	4	1
age 19-21				
Change in total earnings for separations for Male and	DWS_A1A03	04708	4	I
age 22-24				
Change in total earnings for separations for Male and	DWS_A1A04	04720	4	I
age 25-34				
Change in total earnings for separations for Male and	DWS_A1A05	04732	4	I
age 35-44				
Change in total earnings for separations for Male and	DWS_A1A06	04744	4]
age 45-54				
Change in total earnings for separations for Male and	DWS_A1A07	04756	4]
age 55-64				
Change in total earnings for separations for Male and	DWS_A1A08	04768	4]
age 65-99				
Change in total earnings for transits to full-quarter	DWFA_A2A01	04148	4]
status for Female and age				_
Change in total earnings for transits to full-quarter	DWFA_A2A00	04136	4	I
status for Female and age	******			_
Change in total earnings for transits to full-quarter	$DWFA_A2A02$	04160	4	I
status for Female and age	TITEL AGAGG	0.44.50		-
Change in total earnings for transits to full-quarter	DWFA_A2A03	04172	4	I
status for Female and age	THEA AGAGA	0.410.4	,	,
Change in total earnings for transits to full-quarter	$DWFA_A2A04$	04184	4]
status for Female and age	PARTIA ADAOF	0.4100	4	7
Change in total earnings for transits to full-quarter	DWFA_A2A05	04196	4]
status for Female and age	DWEA ADAOR	0.4200	4	
Change in total earnings for transits to full-quarter	DWFA_A2A06	04208	4	ļ
status for Female and age Change in total earnings for transits to full-quarter	DWFA_A2A07	04220	4	
status for Female and age	DWFA_A2A01	04220	4	
Change in total earnings for transits to full-quarter	DWFA_A2A08	04232	4	
tatus for Female and age	DWFA_A2A00	04232	4	
Change in total earnings for transits to full-quarter	DWFA_A0A01	04140	4]
status for Male and Female	DWITTETTOTTOT	01110	1	•
Change in total earnings for transits to full-quarter	DWFA_A0A00	04128	4]
status for Male and Female	,	01120	-	-
Change in total earnings for transits to full-quarter	DWFA_A0A02	04152	4]
status for Male and Female			_	-
Change in total earnings for transits to full-quarter	DWFA_A0A03	04164	4]
status for Male and Female				

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Change in total earnings for transits to full-quarter	DWFA_A0A04	04176	4	N
status for Male and Female		0.41.00	4	3.7
Change in total earnings for transits to full-quarter	DWFA_A0A05	04188	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A0A06	04200	4	N
status for Male and Female		0.404.0		
Change in total earnings for transits to full-quarter	DWFA_A0A07	04212	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A0A08	04224	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A1A01	04144	4	N
status for Male and age 14				
Change in total earnings for transits to full-quarter	DWFA_A1A00	04132	4	N
status for Male and age 14				
Change in total earnings for transits to full-quarter	DWFA_A1A02	04156	4	N
status for Male and age 19				
Change in total earnings for transits to full-quarter	DWFA_A1A03	04168	4	N
status for Male and age 22				
Change in total earnings for transits to full-quarter	DWFA_A1A04	04180	4	N
status for Male and age 25				
Change in total earnings for transits to full-quarter	$DWFA_A1A05$	04192	4	N
status for Male and age 35				
Change in total earnings for transits to full-quarter	$DWFA_A1A06$	04204	4	N
status for Male and age 45				
Change in total earnings for transits to full-quarter	$DWFA_A1A07$	04216	4	N
status for Male and age 55				
Change in total earnings for transits to full-quarter	DWFA_A1A08	04228	4	N
status for Male and age 65				
Cleaned GEO FIPS County CCC	LEG_COUNTY	07498	3	A/N
Cleaned OWNER_CODE O	ES_OWNER_CODE	07493	1	A/N
Cleaned SIC Code IIII	ES_SIC	07494	4	A/N
ES202 FIPS State SS	ES_STATE	07526	2	A/N
Employment any time during the period for Female	M_A2A01	00260	4	N
and age 14-18				
Employment any time during the period for Female	M_A2A00	00248	4	N
and age 14-99				
Employment any time during the period for Female	M_A2A02	00272	4	N
and age 19-21				
Employment any time during the period for Female	M_A2A03	00284	4	N
and age 22-24				
Employment any time during the period for Female	M_A2A04	00296	4	N
and age 25-34				
Employment any time during the period for Female	M_A2A05	00308	4	N
and age 35-44				
Employment any time during the period for Female	M_A2A06	00320	4	N
and age 45-54				
Employment any time during the period for Female	M_A2A07	00332	4	N
and age 55-64				
Employment any time during the period for Female	M_A2A08	00344	4	N
and age 65-99				
-				

Page 190

LEHD-OVERVIEW-S2004

Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Employment any time during the period for Male and	M_A0A01	00252	4	N
Female and age 14-18				
Employment any time during the period for Male and	M_A0A00	00240	4	N
Female and age 14-99				
Employment any time during the period for Male and	M_A0A02	00264	4	N
Female and age 19-21				
Employment any time during the period for Male and	M_A0A03	00276	4	N
Female and age 22-24	25 40404	00000		3.7
Employment any time during the period for Male and	M_A0A04	00288	4	N
Female and age 25-34	M. AOAOF	00200	4	N.T.
Employment any time during the period for Male and	M_A0A05	00300	4	N
Female and age 35-44	M $\Lambda \cap \Lambda \cap C$	00210	4	NT.
Employment any time during the period for Male and	M_A0A06	00312	4	N
Female and age 45-54 Employment any time during the period for Male and	$M = \Lambda \cap \Lambda \cap \nabla$	00224	4	NT
1 0 0 1	M_A0A07	00324	4	N
Female and age 55-64 Employment any time during the period for Male and	M_A0A08	00336	4	N
Female and age 65-99	M_AUAU8	00550	4	IN
Employment any time during the period for Male and	M_A1A01	00256	4	N
age 14-18	WLAIAUI	00230	4	11
Employment any time during the period for Male and	M_A1A00	00244	4	N
age 14-99	1/12/11/11/00	00244	-	11
Employment any time during the period for Male and	M_A1A02	00268	4	N
age 19-21	111111102	00200	1	1,
Employment any time during the period for Male and	M_A1A03	00280	4	N
age 22-24		00_00	_	
Employment any time during the period for Male and	M_A1A04	00292	4	N
age 25-34				
Employment any time during the period for Male and	M_A1A05	00304	4	N
age 35-44				
Employment any time during the period for Male and	M_A1A06	00316	4	N
age 45-54				
Employment any time during the period for Male and	M_A1A07	00328	4	N
age 55-64				
Employment any time during the period for Male and	M_A1A08	00340	4	N
age 65-99				
End-of-period employment for Female and age 14-18	E_A2A01	00152	4	N
End-of-period employment for Female and age 14-99	E_A2A00	00140	4	N
End-of-period employment for Female and age 19-21	E_A2A02	00164	4	N
End-of-period employment for Female and age 22-24	E_A2A03	00176	4	N
End-of-period employment for Female and age 25-34	E_A2A04	00188	4	N
End-of-period employment for Female and age 35-44	EA2A05	00200	4	N
End-of-period employment for Female and age 45-54	E_A2A06	00212	4	N
End-of-period employment for Female and age 55-64	E_A2A07	00224	4	N
End-of-period employment for Female and age 65-99	E_A2A08	00236	4	N
End-of-period employment for Male and Female and	E_A0A01	00144	4	N
age 14-18	F 40400	2212		
End-of-period employment for Male and Female and	E_A0A00	00132	4	N
age 14-99				

CHAPTER 7. QUARTERLY WORK	1		, , ,	
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
End-of-period employment for Male and Female and	E_A0A02	00156	4	N
age 19-21 End-of-period employment for Male and Female and	E_A0A03	00168	4	N
age 22-24	E_AUAU3	00108	4	IN
End-of-period employment for Male and Female and	E_A0A04	00180	4	N
age 25-34	E_A0A04	00100	4	11
End-of-period employment for Male and Female and	E_A0A05	00192	4	N
age 35-44	L=1101100	00152	7	11
End-of-period employment for Male and Female and	E_A0A06	00204	4	N
age 45-54	13_1101100	00201	-	1,
End-of-period employment for Male and Female and	E_A0A07	00216	4	N
age 55-64	22101101	00210	-	- 1
End-of-period employment for Male and Female and	E_A0A08	00228	4	N
age 65-99		000		
End-of-period employment for Male and age 14-18	E_A1A01	00148	4	N
End-of-period employment for Male and age 14-99	E_A1A00	00136	4	N
End-of-period employment for Male and age 19-21	E_A1A02	00160	4	N
End-of-period employment for Male and age 22-24	E_A1A03	00172	4	N
End-of-period employment for Male and age 25-34	E_A1A04	00184	4	N
End-of-period employment for Male and age 35-44	E_A1A05	00196	4	N
End-of-period employment for Male and age 45-54	E_A1A06	00208	4	N
End-of-period employment for Male and age 55-64	E_A1A07	00220	4	N
End-of-period employment for Male and age 65-99	E_A1A08	00232	4	$\mathbf N$
Final 2002 NAICS Code NNNNNN	ES_NAICS_FNL2002	07528	6	A/N
Flow into consecutive quarter employment for Female	CA_A2A01	03068	4	N
and age 14-18				
Flow into consecutive quarter employment for Female	CA_A2A00	03056	4	N
and age 14-99				
Flow into consecutive quarter employment for Female	CA_A2A02	03080	4	N
and age 19-21				
Flow into consecutive quarter employment for Female	CA_A2A03	03092	4	\mathbf{N}
and age 22-24				
Flow into consecutive quarter employment for Female	CA_A2A04	03104	4	\mathbf{N}
and age 25-34				
Flow into consecutive quarter employment for Female	CA_A2A05	03116	4	N
and age 35-44				
Flow into consecutive quarter employment for Female	CA_A2A06	03128	4	N
and age 45-54	CA A 2 A 2 F	001.40	4	N.T.
Flow into consecutive quarter employment for Female	CA_A2A07	03140	4	N
and age 55-64	CA A2A00	02150	4	N.T.
Flow into consecutive quarter employment for Female	CA_A2A08	03152	4	N
and age 65-99 Flow into consecutive quarter employment for Male	CA_A0A01	03060	4	N
and Female and age 14-18	CA_A0A01	03000	4	11
Flow into consecutive quarter employment for Male	CA_A0A00	03048	4	N
and Female and age 14-99	CALAUAUU	03040	4	11
Flow into consecutive quarter employment for Male	CA_A0A02	03072	4	N
and Female and age 19-21	011_1101102	05012	4	11
Flow into consecutive quarter employment for Male	CA_A0A03	03084	4	N
and Female and age 22-24	3111101100	03001	1	11

 $Page\ 192$ $LEHD ext{-}OVERVIEW ext{-}S2004$

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Flow into consecutive quarter employment for Male and Female and age 25-34	CA_A0A04	03096	4	N
Flow into consecutive quarter employment for Male and Female and age 35-44	CA_A0A05	03108	4	N
Flow into consecutive quarter employment for Male and Female and age 45-54	CA_A0A06	03120	4	N
Flow into consecutive quarter employment for Male and Female and age 55-64	CA_A0A07	03132	4	N
Flow into consecutive quarter employment for Male and Female and age 65-99	CA_A0A08	03144	4	N
Flow into consecutive quarter employment for Male and age 14-18	CA_A1A01	03064	4	N
Flow into consecutive quarter employment for Male	CA_A1A00	03052	4	N
and age 14-99 Flow into consecutive quarter employment for Male	CA_A1A02	03076	4	N
and age 19-21 Flow into consecutive quarter employment for Male	CA_A1A03	03088	4	N
and age 22-24 Flow into consecutive quarter employment for Male	CA_A1A04	03100	4	N
and age 25-34 Flow into consecutive quarter employment for Male	CA_A1A05	03112	4	N
and age 35-44 Flow into consecutive quarter employment for Male	CA_A1A06	03124	4	N
and age 45-54 Flow into consecutive quarter employment for Male	CA_A1A07	03136	4	N
and age 55-64 Flow into consecutive quarter employment for Male	CA_A1A08	03148	4	N
and age 65-99 Flow into full-quarter employment for Female and age	FA_A2A01	02636	4	N
14-18 Flow into full-quarter employment for Female and age	FA_A2A00	02624	4	N
14-99 Flow into full-quarter employment for Female and age	FA_A2A02	02648	4	N
19-21 Flow into full-quarter employment for Female and age	FA_A2A03	02660	4	N
22-24 Flow into full-quarter employment for Female and age	FA_A2A04	02672	4	N
25-34 Flow into full-quarter employment for Female and age	FA_A2A05	02684	4	N
35-44 Flow into full-quarter employment for Female and age	FA_A2A06	02696	4	N
45-54 Flow into full-quarter employment for Female and age	FA_A2A07	02708	4	N
55-64 Flow into full-quarter employment for Female and age	FA_A2A08	02720	4	N
65-99 Flow into full-quarter employment for Male and Fe-	FA_A0A01	02628	4	N
male and age 14-18 Flow into full-quarter employment for Male and Fe-	FA_A0A00	02616	4	N
male and age 14-99				

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Flow into full-quarter employment for Male and age FA_A1A07 02704 4 N 55-64 Flow into full-quarter employment for Male and age FA_A1A08 02716 4 N 65-99 Flow out of consecutive quarter employment for Fe- CS_A2A01 03176 4 N male and age 14-18 Flow out of consecutive quarter employment for Fe- CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		FA_A1A06	02692	4	IN
Flow into full-quarter employment for Male and age FA_A1A08 02716 4 N 65-99 Flow out of consecutive quarter employment for Fe- CS_A2A01 03176 4 N male and age 14-18 Flow out of consecutive quarter employment for Fe- CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		TA A 1 A 0 7	00704	4	N.T.
Flow into full-quarter employment for Male and age FA_A1A08 02716 4 N 65-99 Flow out of consecutive quarter employment for Fe- CS_A2A01 03176 4 N male and age 14-18 Flow out of consecutive quarter employment for Fe- CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N M male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N male and age 55-64		FA_ATAU/	02704	4	IN
Flow out of consecutive quarter employment for Fe-CS_A2A01 03176 4 N male and age 14-18 Flow out of consecutive quarter employment for Fe-CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe-CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe-CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe-CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe-CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe-CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe-CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe-CS_A2A08 03260 4 N		TA 41400	00716	4	NT
Flow out of consecutive quarter employment for Fe- CS_A2A01 03176 4 N male and age 14-18 Flow out of consecutive quarter employment for Fe- CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		FA_ATAU8	02716	4	IN
male and age 14-18 Flow out of consecutive quarter employment for Fe-CS_A2A00 03164 4 N male and age 14-99 Flow out of consecutive quarter employment for Fe-CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe-CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe-CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe-CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe-CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe-CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe-CS_A2A08 03260 4 N		CC 40401	09170	4	NT
Flow out of consecutive quarter employment for Fe-male and age 14-99 Flow out of consecutive quarter employment for Fe-male and age 19-21 Flow out of consecutive quarter employment for Fe-male and age 19-21 Flow out of consecutive quarter employment for Fe-male and age 22-24 Flow out of consecutive quarter employment for Fe-male and age 25-34 Flow out of consecutive quarter employment for Fe-male and age 35-44 Flow out of consecutive quarter employment for Fe-male and age 45-54 Flow out of consecutive quarter employment for Fe-male and age 45-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64 Flow out of consecutive quarter employment for Fe-male and age 55-64	1 1 V	CS_A2A01	03176	4	IN
male and age 14-99 Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· ·	CC 42400	02164	4	NT.
Flow out of consecutive quarter employment for Fe- CS_A2A02 03188 4 N male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		CS_A2A00	03164	4	IN
male and age 19-21 Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· ·	CC 49409	02100	4	NT.
Flow out of consecutive quarter employment for Fe- CS_A2A03 03200 4 N male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		C5_A2A02	03188	4	IN
male and age 22-24 Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· · · · · · · · · · · · · · · · · · ·	CC 42402	02200	4	NT
Flow out of consecutive quarter employment for Fe- CS_A2A04 03212 4 N male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		C5_A2A03	03200	4	IN
male and age 25-34 Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· ·	CC 42404	02010	4	NT
Flow out of consecutive quarter employment for Fe- CS_A2A05 03224 4 N male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	- · · ·	C5_A2A04	03212	4	IN
male and age 35-44 Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N		CS 42405	02224	4	N
Flow out of consecutive quarter employment for Fe- CS_A2A06 03236 4 N male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	- · · ·	CS_AZA05	03224	4	11
male and age 45-54 Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· ·	CS 12106	02226	4	N
Flow out of consecutive quarter employment for Fe- CS_A2A07 03248 4 N male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	- · · ·	OD_A4AUU	05250	4	IN
male and age 55-64 Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	· ·	CS A2A07	02249	4	N
Flow out of consecutive quarter employment for Fe- CS_A2A08 03260 4 N	- · · ·	OD_A2AUI	03248	4	1N
- · · · · · · · · · · · · · · · · · · ·	ŭ	CS A2A08	വളാഭവ	4	N
maic and age 00-22	- · · ·	00_1141100	05200	4	11
	more and age of 55				

Page 194

LEHD-OVERVIEW-S2004

Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
Field name	reference name	position	size	type
Flow out of consecutive quarter employment for Male	CS_A0A01	03168	4	N
and Female and age 14-18				
Flow out of consecutive quarter employment for Male	CS_A0A00	03156	4	N
and Female and age 14-99				
Flow out of consecutive quarter employment for Male	CS_A0A02	03180	4	N
and Female and age 19-21	GG 40400	00100		N. T
Flow out of consecutive quarter employment for Male	CS_A0A03	03192	4	N
and Female and age 22-24	CS_A0A04	03204	4	N
Flow out of consecutive quarter employment for Male and Female and age 25-34	C5_A0A04	03204	4	N
Flow out of consecutive quarter employment for Male	CS_A0A05	03216	4	N
and Female and age 35-44	0521101100	03210	4	11
Flow out of consecutive quarter employment for Male	CS_A0A06	03228	4	N
and Female and age 45-54	052101100	00220		1,
Flow out of consecutive quarter employment for Male	CS_A0A07	03240	4	N
and Female and age 55-64	0.021101101	00-10	-	- 1
Flow out of consecutive quarter employment for Male	CS_A0A08	03252	4	N
and Female and age 65-99				
Flow out of consecutive quarter employment for Male	CS_A1A01	03172	4	N
and age 14-18				
Flow out of consecutive quarter employment for Male	CS_A1A00	03160	4	N
and age 14-99				
Flow out of consecutive quarter employment for Male	CS_A1A02	03184	4	N
and age 19-21				
Flow out of consecutive quarter employment for Male	CS_A1A03	03196	4	N
and age 22-24				
Flow out of consecutive quarter employment for Male	CS_A1A04	03208	4	N
and age 25-34	CC A1AOF	00000	4	TN T
Flow out of consecutive quarter employment for Male	CS_A1A05	03220	4	N
and age 35-44 Flow out of consecutive quarter employment for Male	CS_A1A06	03232	4	N
and age 45-54	CS_ATA00	03232	4	IN
Flow out of consecutive quarter employment for Male	CS_A1A07	03244	4	N
and age 55-64	OD_AIA01	03244	4	11
Flow out of consecutive quarter employment for Male	CS_A1A08	03256	4	N
and age 65-99	0021111100	00200	1	1,
Flow out of full-quarter employment for Female and	FS_A2A01	02852	4	N
age 14-18		0_00_		
Flow out of full-quarter employment for Female and	FS_A2A00	02840	4	N
age 14-99				
Flow out of full-quarter employment for Female and	FS_A2A02	02864	4	N
age 19-21				
Flow out of full-quarter employment for Female and	FS_A2A03	02876	4	N
age 22-24				
Flow out of full-quarter employment for Female and	FS_A2A04	02888	4	N
age 25-34				
Flow out of full-quarter employment for Female and	FS_A2A05	02900	4	N
age 35-44	TG 40400			
Flow out of full-quarter employment for Female and	FS_A2A06	02912	4	N
age 45-54				

Field name	Data dictionary	Starting	Field Field	Data
r leid name	reference name	position	size	type
Flow out of full-quarter employment for Female and	FS_A2A07	02924	4	N
age 55-64				
Flow out of full-quarter employment for Female and	FS_A2A08	02936	4	N
age 65-99				
Flow out of full-quarter employment for Male and Fe-	FS_A0A01	02844	4	N
male and age 14-18				
Flow out of full-quarter employment for Male and Fe-	FS_A0A00	02832	4	N
male and age 14-99				
Flow out of full-quarter employment for Male and Fe-	FS_A0A02	02856	4	N
male and age 19-21	TG 10100	00000	4	3.7
Flow out of full-quarter employment for Male and Fe-	FS_A0A03	02868	4	N
male and age 22-24	TC 40404	00000	4	TN T
Flow out of full-quarter employment for Male and Fe-	FS_A0A04	02880	4	N
male and age 25-34	EG AGAGE	00000	4	ΝT
Flow out of full-quarter employment for Male and Fe-	FS_A0A05	02892	4	N
male and age 35-44	ES ADADE	00004	4	NT
Flow out of full-quarter employment for Male and Fermals and age 45.54	FS_A0A06	02904	4	N
male and age 45-54 Flow out of full-quarter employment for Male and Fe-	FS_A0A07	02916	4	N
male and age 55-64	r S_AOAO7	02910	4	11
Flow out of full-quarter employment for Male and Fe-	FS_A0A08	02928	4	N
male and age 65-99	152/10/100	02320	4	11
Flow out of full-quarter employment for Male and age	FS_A1A01	02848	4	N
14-18		02010	1	1,
Flow out of full-quarter employment for Male and age	FS_A1A00	02836	4	N
14-99				
Flow out of full-quarter employment for Male and age	FS_A1A02	02860	4	N
19-21				
Flow out of full-quarter employment for Male and age	FS_A1A03	02872	4	N
22-24				
Flow out of full-quarter employment for Male and age	FS_A1A04	02884	4	N
25-34				
Flow out of full-quarter employment for Male and age	FS_A1A05	02896	4	N
35-44				
Flow out of full-quarter employment for Male and age	FS_A1A06	02908	4	N
45-54				
Flow out of full-quarter employment for Male and age	FS_A1A07	02920	4	N
55-64				
Flow out of full-quarter employment for Male and age	FS_A1A08	02932	4	N
65-99	T			
Full-quarter employment for Female and age 14-18	F_A2A01	00368	4	N
Full-quarter employment for Female and age 14-99	F_A2A00	00356	4	N
Full-quarter employment for Female and age 19-21	F_A2A02	00380	4	N
Full quarter employment for Female and age 22-24	F_A2A03	00392	4	N
Full-quarter employment for Female and age 25-34	F_A2A04	00404	4	N N
Full-quarter employment for Female and age 35-44 Full-quarter employment for Female and age 45-54	F_A2A05 F_A2A06	$00416 \\ 00428$	$\frac{4}{4}$	N N
Full-quarter employment for Female and age 45-54 Full-quarter employment for Female and age 55-64	F_A2A00 F_A2A07	00428	$\frac{4}{4}$	N N
Full-quarter employment for Female and age 65-99	F_A2A07 F_A2A08	00440	$\frac{4}{4}$	N
Tan quarter employment for Lemane and age 00-50	1 1121100	00402	-	11

Page 196 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Full-quarter employment for Male and Female and age	F_A0A01	00360	4	N
14-18				
Full-quarter employment for Male and Female and age	F_A0A00	00348	4	N
14-99				
Full-quarter employment for Male and Female and age	F_A0A02	00372	4	N
19-21				
Full-quarter employment for Male and Female and age	F_A0A03	00384	4	N
22-24				
Full-quarter employment for Male and Female and age	F_A0A04	00396	4	N
25-34				
Full-quarter employment for Male and Female and age	F_A0A05	00408	4	N
35-44				
Full-quarter employment for Male and Female and age	F_A0A06	00420	4	N
45-54				
Full-quarter employment for Male and Female and age	F_A0A07	00432	4	N
55-64				
Full-quarter employment for Male and Female and age	F_A0A08	00444	4	N
65-99	T 14104	00004	i	3.7
Full-quarter employment for Male and age 14-18	F_A1A01	00364	4	N
Full-quarter employment for Male and age 14-99	F_A1A00	00352	4	N
Full-quarter employment for Male and age 19-21	F_A1A02	00376	4	N
Full-quarter employment for Male and age 22-24	F_A1A03	00388	4	N
Full-quarter employment for Male and age 25-34	F_A1A04	00400	4	N
Full-quarter employment for Male and age 35-44	F_A1A05	00412	4	N
Full-quarter employment for Male and age 45-54	F_A1A06	00424	4	N
Full quarter employment for Male and age 55-64	F_A1A07	00436	4	N
Full quarter employment for Male and age 65-99	F_A1A08	00448	4	N
Full-quarter job creation for Female and age 14-18	FJC_A2A01	01448	4	N
Full quarter job creation for Female and age 14-99	FJC_A2A00	01436	4	N
Full quarter job creation for Female and age 19-21	FJC_A2A02 FJC_A2A03	01460	4	N
Full quarter job creation for Female and age 22-24		01472	4	N
Full quarter job creation for Female and age 25-34	FJC_A2A04	01484	4	N
Full-quarter job creation for Female and age 35-44 Full-quarter job creation for Female and age 45-54	FJC_A2A05 FJC_A2A06	$01496 \\ 01508$	4	N N
Full-quarter job creation for Female and age 45-54	FJC_A2A00 FJC_A2A07	01508 01520	$\frac{4}{4}$	N
Full-quarter job creation for Female and age 65-99	FJC_A2A07	01520 01532		N
Full-quarter job creation for Male and Female and age	FJC_A0A01	01440	$\frac{4}{4}$	N
14-18	I JO_AUAUI	01440	4	11
Full-quarter job creation for Male and Female and age	FJC_A0A00	01428	4	N
14-99	I JO_AUAUU	01420	4	11
Full-quarter job creation for Male and Female and age	FJC_A0A02	01452	4	N
19-21	1 30-1101102	01402	4	11
Full-quarter job creation for Male and Female and age	FJC_A0A03	01464	4	N
22-24	10021101100	01101	1	11
Full-quarter job creation for Male and Female and age	FJC_A0A04	01476	4	N
25-34	1 0 0 2110110 1	01110	1	11
Full-quarter job creation for Male and Female and age	FJC_A0A05	01488	4	N
35-44	_ 5 0 101100	01100		Δ,
Full-quarter job creation for Male and Female and age	FJC_A0A06	01500	4	N
45-54	3 0 == 20 = 40 0	02000	-	± ·

 $Page\ 197$ Revision: 219

	Data type N
Full-quarter job creation for Male and Female and age FJC_A0A07 01512 4 55-64	N
55-64	
Full-quarter job creation for Male and Female and age FIC A0A08 01524 4	N
65-99	
Full-quarter job creation for Male and age 14-18 FJC_A1A01 01444 4	N
Full-quarter job creation for Male and age 14-99 FJC_A1A00 01432 4	N
Full-quarter job creation for Male and age 19-21 FJC_A1A02 01456 4	N
Full-quarter job creation for Male and age 22-24 FJC_A1A03 01468 4	N
Full-quarter job creation for Male and age 25-34 FJC_A1A04 01480 4	N
Full-quarter job creation for Male and age 35-44 FJC_A1A05 01492 4	N
Full-quarter job creation for Male and age 45-54 FJC_A1A06 01504 4	N
Full-quarter job creation for Male and age 55-64 FJC_A1A07 01516 4	N
Full-quarter job creation for Male and age 65-99 FJC_A1A08 01528 4	N
Full-quarter job destruction for Female and age 14-18 FJD_A2A01 01664 4	N
Full-quarter job destruction for Female and age 14-99 FJD_A2A00 01652 4	N
Full-quarter job destruction for Female and age 19-21 FJD_A2A02 01676 4	N
Full-quarter job destruction for Female and age 22-24 FJD_A2A03 01688 4	N
Full-quarter job destruction for Female and age 25-34 FJD_A2A04 01700 4	N
Full-quarter job destruction for Female and age 35-44 FJD_A2A05 01712 4	N
Full-quarter job destruction for Female and age 45-54 FJD_A2A06 01724 4	N
Full-quarter job destruction for Female and age 55-64 FJD_A2A07 01736 4	N
Full-quarter job destruction for Female and age 65-99 FJD_A2A08 01748 4	N
Full-quarter job destruction for Male and Female and FJD_A0A01 01656 4	N
age 14-18 Full-quarter job destruction for Male and Female and FJD_A0A00 01644 4	N
age 14-99 Full-quarter job destruction for Male and Female and FJD_A0A02 01668 4	N
age 19-21	
Full-quarter job destruction for Male and Female and FJD_A0A03 01680 4 age 22-24	N
Full-quarter job destruction for Male and Female and FJD_A0A04 01692 4 age 25-34	N
Full-quarter job destruction for Male and Female and FJD_A0A05 01704 4	N
age 35-44 Full-quarter job destruction for Male and Female and FJD_A0A06 01716 4	N
age 45-54 Full-quarter job destruction for Male and Female and FJD_A0A07 01728 4	N
age 55-64	
Full-quarter job destruction for Male and Female and FJD_A0A08 01740 4 age 65-99	N
Full-quarter job destruction for Male and age 14-18 FJD_A1A01 01660 4	N
Full-quarter job destruction for Male and age 14-99 FJD_A1A00 01648 4	N
Full-quarter job destruction for Male and age 19-21 FJD_A1A02 01672 4	N
Full-quarter job destruction for Male and age 22-24 FJD_A1A03 01684 4	N
Full-quarter job destruction for Male and age 25-34 FJD_A1A04 01696 4	N
Full-quarter job destruction for Male and age 35-44 FJD_A1A05 01708 4	N
Full-quarter job destruction for Male and age 45-54 FJD_A1A06 01720 4	N
Full-quarter job destruction for Male and age 55-64 FJD_A1A07 01732 4	N
Full-quarter job destruction for Male and age 65-99 FJD_A1A08 01744 4	N
Full-quarter new hires for Female and age 14-18 H3_A2A01 02420 4	N

Page 198 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERET WORKFORCE INDICA.	,	- /	D: 11	D /
Field name	Data dictionary	Starting	Field	Data
Full-quarter new hires for Female and age 14-99	reference name	position	size	type
	H3_A2A00	02408	4	N
Full quarter new hires for Female and age 19-21	H3_A2A02	02432	4	N
Full-quarter new hires for Female and age 22-24	H3_A2A03	02444	4	N
Full-quarter new hires for Female and age 25-34	H3_A2A04	02456	4	N
Full-quarter new hires for Female and age 35-44	H3_A2A05	02468	4	N
Full-quarter new hires for Female and age 45-54	H3_A2A06	02480	4	N
Full-quarter new hires for Female and age 55-64	H3_A2A07	02492	4	N
Full-quarter new hires for Female and age 65-99	H3_A2A08	02504	4	N
Full-quarter new hires for Male and Female and age 14-18	H3_A0A01	02412	4	N
Full-quarter new hires for Male and Female and age 14-99	H3_A0A00	02400	4	N
Full-quarter new hires for Male and Female and age 19-21	H3_A0A02	02424	4	N
Full-quarter new hires for Male and Female and age 22-24	H3_A0A03	02436	4	N
Full-quarter new hires for Male and Female and age	H3_A0A04	02448	4	N
25-34 Full-quarter new hires for Male and Female and age	H3_A0A05	02460	4	N
35-44 Full-quarter new hires for Male and Female and age	H3_A0A06	02472	4	N
45-54 Full-quarter new hires for Male and Female and age	H3_A0A07	02484	4	N
55-64				
Full-quarter new hires for Male and Female and age 65-99	H3_A0A08	02496	4	N
Full-quarter new hires for Male and age 14-18	H3_A1A01	02416	4	N
Full-quarter new hires for Male and age 14-99	H3_A1A00	02404	$_4$	N
Full-quarter new hires for Male and age 19-21	H3_A1A02	02428	4	\mathbf{N}
Full-quarter new hires for Male and age 22-24	H3_A1A03	02440	4	N
Full-quarter new hires for Male and age 25-34	H3_A1A04	02452	4	N
Full-quarter new hires for Male and age 35-44	H3_A1A05	02464	4	N
Full-quarter new hires for Male and age 45-54	H3_A1A06	02476	4	N
Full-quarter new hires for Male and age 55-64	H3_A1A07	02488	$\overline{4}$	N
Full-quarter new hires for Male and age 65-99	H3_A1A08	02500	$\overline{4}$	N
Job creation for Female and age 14-18	JC_A2A01	00692	$\overline{4}$	N
Job creation for Female and age 14-99	JC_A2A00	00680	4	N
Job creation for Female and age 19-21	JC_A2A02	00704	4	N
Job creation for Female and age 22-24	JC_A2A03	00704	4	N
Job creation for Female and age 25-34	JC_A2A04	00710		N
<u> </u>			4	
Job creation for Female and age 35-44	JC_A2A05	00740	4	N
Job creation for Female and age 45-54	JC_A2A06	00752	4	N
Job creation for Female and age 55-64	JC_A2A07	00764	4	N
Job creation for Female and age 65-99	JC_A2A08	00776	4	N
Job creation for Male and Female and age 14-18	JC_A0A01	00684	4	N
Job creation for Male and Female and age 14-99	JC_A0A00	00672	4	N
Job creation for Male and Female and age 19-21	JC_A0A02	00696	4	N
Job creation for Male and Female and age 22-24	JC_A0A03	00708	4	N
Job creation for Male and Female and age 25-34	JC_A0A04	00720	4	N
Job creation for Male and Female and age 35-44	JCA0A05	00732	4	N

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
r ieid liame	reference name	position	size	type
Job creation for Male and Female and age 45-54	JC_A0A06	00744	4	N
Job creation for Male and Female and age 55-64	JC_A0A07	00756	4	N
Job creation for Male and Female and age 65-99	JC_A0A08	00768	4	N
Job creation for Male and age 14-18	JC_A1A01	00688	4	N
Job creation for Male and age 14-19	JC_A1A00	00676	4	N
Job creation for Male and age 14-33 Job creation for Male and age 19-21	JC_A1A02	00700	4	N
Job creation for Male and age 22-24	JC_A1A03	00712	4	N
Job creation for Male and age 25-34	JC_A1A04	00712	4	N
Job creation for Male and age 25-54 Job creation for Male and age 35-44	JC_A1A04 JC_A1A05	00736	4	N
Job creation for Male and age 45-54	JC_A1A06	00748	4	N
Job creation for Male and age 55-64	JC_A1A00 JC_A1A07	00760	4	N
Job creation for Male and age 65-99	JC_A1A07 JC_A1A08	00772	4	N
Job destruction for Female and age 14-18	JD_A2A01	00908	4	N
	JD_A2A01 JD_A2A00	00908	$\frac{4}{4}$	N
Job destruction for Female and age 14-99 Job destruction for Female and age 19-21	JD_A2A00 JD_A2A02	00920	$\frac{4}{4}$	N
· · · · · · · · · · · · · · · · · · ·	JD_A2A02 JD_A2A03	00920		N
Job destruction for Female and age 22-24	JD_A2A03 JD_A2A04	00932	4	N
Job destruction for Female and age 25-34		00944 00956	4	N N
Job destruction for Female and age 35-44 Job destruction for Female and age 45-54	JD_A2A05		4	N
e e e e e e e e e e e e e e e e e e e	JD_A2A06	00968	4	
Job destruction for Female and age 55-64	JD_A2A07	00980	4	N
Job destruction for Female and age 65-99	JD_A2A08	00992	4	N
Job destruction for Male and Female and age 14-18	JD_A0A01	00900	4	N
Job destruction for Male and Female and age 14-99	JD_A0A00	00888	4	N
Job destruction for Male and Female and age 19-21	JD_A0A02	00912	4	N
Job destruction for Male and Female and age 22-24	JD_A0A03	00924	4	N
Job destruction for Male and Female and age 25-34	JD_A0A04	00936	4	N
Job destruction for Male and Female and age 35-44	JD_A0A05	00948	4	N
Job destruction for Male and Female and age 45-54	JD_A0A06	00960	4	N
Job destruction for Male and Female and age 55-64	JD_A0A07	00972	4	N
Job destruction for Male and Female and age 65-99	JD_A0A08	00984	4	N
Job destruction for Male and age 14-18	JD_A1A01	00904	4	N
Job destruction for Male and age 14-99	JD_A1A00	00892	4	N
Job destruction for Male and age 19-21	JD_A1A02	00916	4	N
Job destruction for Male and age 22-24	JD_A1A03	00928	4	N
Job destruction for Male and age 25-34	JD_A1A04	00940	4	N
Job destruction for Male and age 35-44	JD_A1A05	00952	4	N
Job destruction for Male and age 45-54	JD_A1A06	00964	4	N
Job destruction for Male and age 55-64	JD_A1A07	00976	4	N
Job destruction for Male and age 65-99	JD_A1A08	00988	4	N
MSAPMSA metro area code, mmmmmmmm	LEG_MSAPMSA	07501	8	A/N
Net change in full-quarter employment for Female and age 14-18	FJF_A2A01	01124	4	N
Net change in full-quarter employment for Female and age 14-99	FJF_A2A00	01112	4	N
Net change in full-quarter employment for Female and age 19-21	FJF_A2A02	01136	4	N
Net change in full-quarter employment for Female and age 22-24	FJF_A2A03	01148	4	N
Net change in full-quarter employment for Female and age 25-34	FJF_A2A04	01160	4	N
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 $Page\ 200$ $LEHD ext{-}OVERVIEW ext{-}S2004$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICA.		<u> </u>		
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Net change in full-quarter employment for Female and age 35-44	FJF_A2A05	01172	4	N
Net change in full-quarter employment for Female and age 45-54	FJF_A2A06	01184	4	N
Net change in full-quarter employment for Female and	FJF_A2A07	01196	4	N
age 55-64 Net change in full-quarter employment for Female and	FJF_A2A08	01208	4	N
age 65-99 Net change in full-quarter employment for Male and	FJF_A0A01	01116	4	N
Female and age 14-18 Net change in full-quarter employment for Male and	FJF_A0A00	01104	4	N
Female and age 14-99 Net change in full-quarter employment for Male and	FJF_A0A02	01128	4	N
Female and age 19-21 Net change in full-quarter employment for Male and	FJF_A0A03	01140	4	N
Female and age 22-24 Net change in full-quarter employment for Male and	FJF_A0A04	01152	4	N
Female and age 25-34 Net change in full-quarter employment for Male and	FJF_A0A05	01164	4	N
Female and age 35-44 Net change in full-quarter employment for Male and	FJF_A0A06	01176	4	N
Female and age 45-54 Net change in full-quarter employment for Male and	FJF_A0A07	01188	4	N
Female and age 55-64 Net change in full-quarter employment for Male and	FJF_A0A08	01200	4	N
Female and age 65-99				
Net change in full-quarter employment for Male and age 14-18	FJF_A1A01	01120	4	N
Net change in full-quarter employment for Male and age 14-99	FJF_A1A00	01108	4	N
Net change in full-quarter employment for Male and age 19-21	$\mathrm{FJF_A1A02}$	01132	4	N
Net change in full-quarter employment for Male and age 22-24	FJF_A1A03	01144	4	N
Net change in full-quarter employment for Male and age 25-34	FJF_A1A04	01156	4	N
Net change in full-quarter employment for Male and age 35-44	FJF_A1A05	01168	4	N
Net change in full-quarter employment for Male and age 45-54	FJF_A1A06	01180	4	N
Net change in full-quarter employment for Male and age 55-64	FJF_A1A07	01192	4	N
Net change in full-quarter employment for Male and age 65-99	FJF_A1A08	01204	4	N
Net job flows for Female and age 14-18	JF_A2A01	00476	4	N
Net job flows for Female and age 14-99	JF_A2A00	00464	4	N
Net job flows for Female and age 19-21	JF_A2A02	00488	4	N
Net job flows for Female and age 22-24	JF_A2A03	00500	4	N
Net job flows for Female and age 25-34	JF_A2A04	00512	4	N
Net job flows for Female and age 35-44	JF_A2A05	00512 00524	4	N
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 $LEHD ext{-}OVERVIEW ext{-}S2004$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WOR			· -	
Field name	Data dictionary	Starting	Field	Data
NACE AND ADDRESS OF THE PARTY.	reference name	position	size	type
Net job flows for Female and age 45-54	JF_A2A06	00536	4	N
Net job flows for Female and age 55-64	JF_A2A07	00548	4	N
Net job flows for Female and age 65-99	JF_A2A08	00560	4	N
Net job flows for Male and Female and age 14-18	JF_A0A01	00468	4	N
Net job flows for Male and Female and age 14-99	JF_A0A00	00456	4	N
Net job flows for Male and Female and age 19-21	JF_A0A02	00480	4	N
Net job flows for Male and Female and age 22-24	JF_A0A03	00492	4	N
Net job flows for Male and Female and age 25-34	$\mathrm{JF}\text{-}\mathrm{A0A04}$	00504	4	\mathbf{N}
Net job flows for Male and Female and age 35-44	$\mathrm{JF}_\mathrm{A0A05}$	00516	4	\mathbf{N}
Net job flows for Male and Female and age 45-54	$\mathrm{JF}_\mathrm{A0A06}$	00528	4	\mathbf{N}
Net job flows for Male and Female and age 55-64	$\mathrm{JF_A0A07}$	00540	4	\mathbf{N}
Net job flows for Male and Female and age 65-99	$\mathrm{JF_A0A08}$	00552	4	N
Net job flows for Male and age 14-18	$\mathrm{JF}_\mathrm{A1A01}$	00472	4	N
Net job flows for Male and age 14-99	JF_A1A00	00460	4	N
Net job flows for Male and age 19-21	$\rm JF_A1A02$	00484	4	N
Net job flows for Male and age 22-24	$\rm JF_A1A03$	00496	4	N
Net job flows for Male and age 25-34	$\rm JF_A1A04$	00508	4	N
Net job flows for Male and age 35-44	$ m JF_A1A05$	00520	4	N
Net job flows for Male and age 45-54	$\rm JF_A1A06$	00532	4	N
Net job flows for Male and age 55-64	$\rm JF_A1A07$	00544	4	N
Net job flows for Male and age 65-99	JF_A1A08	00556	4	N
New hires for Female and age 14-18	H_A2A01	02312	4	N
New hires for Female and age 14-99	H_A2A00	02300	$\overline{4}$	N
New hires for Female and age 19-21	H_A2A02	02324	$\overline{4}$	N
New hires for Female and age 22-24	H_A2A03	02336	$\overline{4}$	N
New hires for Female and age 25-34	H_A2A04	02348	4	N
New hires for Female and age 35-44	H_A2A05	02360	4	N
New hires for Female and age 45-54	H_A2A06	02372	4	N
New hires for Female and age 55-64	H_A2A07	02384	4	N
New hires for Female and age 65-99	H_A2A08	02396	4	N
New hires for Male and Female and age 14-18	H_A0A01	02304	4	N
New hires for Male and Female and age 14-16	H_A0A01	02304 02292	4	N
New hires for Male and Female and age 14-99 New hires for Male and Female and age 19-21	H_A0A00 H_A0A02	02316	4	N
New hires for Male and Female and age 19-21 New hires for Male and Female and age 22-24	H_A0A02 H_A0A03	02310 02328		N
	H_A0A03 H_A0A04	02340	$\frac{4}{4}$	N
New hires for Male and Female and age 25-34				
New hires for Male and Female and age 35-44	H_A0A05	02352	4	N
New hires for Male and Female and age 45-54	H_A0A06	02364	4	N
New hires for Male and Female and age 55-64	H_A0A07	02376	4	N
New hires for Male and Female and age 65-99	H_A0A08	02388	4	N
New hires for Male and age 14-18	H_A1A01	02308	4	N
New hires for Male and age 14-99	H_A1A00	02296	4	N
New hires for Male and age 19-21	H_A1A02	02320	4	N
New hires for Male and age 22-24	H_A1A03	02332	4	N
New hires for Male and age 25-34	H_A1A04	02344	4	N
New hires for Male and age 35-44	H_A1A05	02356	4	N
New hires for Male and age 45-54	H_A1A06	02368	4	N
New hires for Male and age 55-64	H_A1A07	02380	4	N
New hires for Male and age 65-99	H_A1A08	02392	4	\mathbf{N}
QWI weight correction factor	QWI_WCF	00008	8	N
Quarter QQ	QUARTER	07537	3	\mathbf{N}

Page 202 LEHD-OVERVIEW-S2004

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Recalls for Female and age 14-18	R_A2A01	02528	4	N
Recalls for Female and age 14-99	R_A2A00	02516	4	N
Recalls for Female and age 19-21	R_A2A02	02540	4	N
Recalls for Female and age 22-24	R_A2A03	02552	4	N
Recalls for Female and age 25-34	R_A2A04	02564	4	N
Recalls for Female and age 35-44	R_A2A05	02576	4	N
Recalls for Female and age 45-54	R_A2A06	02588	4	N
Recalls for Female and age 55-64	R_A2A07	02600	4	N
Recalls for Female and age 65-99	R_A2A08	02612	4	N
Recalls for Male and Female and age 14-18	R_A0A01	02520	4	N
Recalls for Male and Female and age 14-99	R_A0A00	02508	4	N
Recalls for Male and Female and age 19-21	R_A0A02	02532	4	N
Recalls for Male and Female and age 22-24	R_A0A03	02544	4	N
Recalls for Male and Female and age 25-34	R_A0A04	02556	4	N
Recalls for Male and Female and age 35-44	R_A0A05	02568	$\overline{4}$	N
Recalls for Male and Female and age 45-54	R_A0A06	02580	$\overline{4}$	N
Recalls for Male and Female and age 55-64	R_A0A07	02592	4	N
Recalls for Male and Female and age 65-99	R_A0A08	02604	4	N
Recalls for Male and age 14-18	R_A1A01	02524	$\overline{4}$	N
Recalls for Male and age 14-99	R_A1A00	02512	$\overline{4}$	N
Recalls for Male and age 19-21	R_A1A02	02536	4	N
Recalls for Male and age 22-24	R_A1A03	02548	$\overline{4}$	N
Recalls for Male and age 25-34	R_A1A04	02560	$\overline{4}$	N
Recalls for Male and age 35-44	R_A1A05	02572	4	N
Recalls for Male and age 45-54	R_A1A06	02584	4	N
Recalls for Male and age 55-64	R_A1A07	02596	4	N
Recalls for Male and age 65-99	R_A1A08	02608	$\overline{4}$	N
Separations for Female and age 14-18	S_A2A01	02096	4	N
Separations for Female and age 14-99	S_A2A00	02084	4	N
Separations for Female and age 19-21	S_A2A02	02108	4	N
Separations for Female and age 22-24	S_A2A03	02120	4	N
Separations for Female and age 25-34	S_A2A04	02120	4	N
Separations for Female and age 25 54 Separations for Female and age 35-44	S_A2A05	02132	4	N
Separations for Female and age 45-54	S_A2A06	02144	4	N
Separations for Female and age 55-64	S_A2A07	02168	4	N
Separations for Female and age 65-99	S_A2A08	02180	4	N
Separations for Male and Female and age 14-18	S_A0A01	02088	4	N
Separations for Male and Female and age 14-19	S_A0A00	02076	4	N
Separations for Male and Female and age 19-21	S_A0A02	02100	4	N
Separations for Male and Female and age 22-24	S_A0A03	02100	4	N
Separations for Male and Female and age 25-34	S_A0A04	02112	4	N
Separations for Male and Female and age 25-34 Separations for Male and Female and age 35-44	S_A0A04 S_A0A05	02124	4	N
Separations for Male and Female and age 45-54	S_A0A06	02148	4	N
-		02148	4	N
Separations for Male and Female and age 55-64 Separations for Male and Female and age 65-99	S_A0A07 S_A0A08	02100 02172	4	N
-	S_A0A08			
Separations for Male and age 14-18	S_A1A01	02092	4	N
Separations for Male and age 14-99	S_A1A00	02080	4	N
Separations for Male and age 19-21	S_A1A02	02104	4	N
Separations for Male and age 22-24	S_A1A03	02116	4	N
Separations for Male and age 25-34	S_A1A04	02128	4	N

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Separations for Male and age 35-44	S_A1A05	02140	4	N
Separations for Male and age 45-54	S_A1A06	02140 02152	4	N
Separations for Male and age 55-64	S_A1A07	02164	4	N
Separations for Male and age 65-99	S_A1A08	02176	4	N
State Employer ID Number	SEIN	07476	12	A/N
State UI Reporting Unit Number	SEINUNIT	07488	5	A/N
Sub-county geocode	LEG_SUBCTYGEO	07509	10	A/N
Sum of log of earnings of beginning-of-period employ-	LNWB_A2A01	05444	4	N N
ment for Female and age 14-1				
Sum of log of earnings of beginning-of-period employment for Female and age 14-9	LNWB_A2A00	05432	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A2A02	05456	4	N
ment for Female and age 19-2	T. N. W. D. A. O. A. O. O. O.	05460	4	N
Sum of log of earnings of beginning-of-period employment for Female and age 22-2	LNWB_A2A03	05468	4	N
Sum of log of earnings of beginning-of-period employ-	$LNWB_A2A04$	05480	4	N
ment for Female and age 25-3 Sum of log of earnings of beginning-of-period employ-	LNWB_A2A05	05492	4	N
ment for Female and age 35-4				
Sum of log of earnings of beginning-of-period employment for Female and age 45-5	LNWB_A2A06	05504	4	N
Sum of log of earnings of beginning-of-period employ-	$LNWB_A2A07$	05516	4	N
ment for Female and age 55-6 Sum of log of earnings of beginning-of-period employ-	LNWB_A2A08	05528	4	N
ment for Female and age 65-9				
Sum of log of earnings of beginning-of-period employment for Male and Female and	LNWB_A0A01	05436	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A00	05424	4	N
ment for Male and Female and Sum of log of earnings of beginning-of-period employ-	LNWB_A0A02	05448	4	N
ment for Male and Female and	1 NUMB A 0 A 0 2	05460	4	N
Sum of log of earnings of beginning-of-period employment for Male and Female and	LNWB_A0A03	05460	4	IN
Sum of log of earnings of beginning-of-period employment for Male and Female and	LNWB_A0A04	05472	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A05	05484	4	N
ment for Male and Female and Sum of log of earnings of beginning-of-period employ-	LNWB_A0A06	05496	4	N
ment for Male and Female and			T	
Sum of log of earnings of beginning-of-period employment for Male and Female and	LNWB_A0A07	05508	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A08	05520	4	N
ment for Male and Female and Sum of log of earnings of beginning-of-period employ-	LNWB_A1A01	05440	4	N
ment for Male and age 14-18				
Sum of log of earnings of beginning-of-period employment for Male and age 14-99	LNWB_A1A00	05428	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A02	05452	4	N
ment for Male and age 19-21				

Page 204

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAITER 7. QUARTERET WORKFORCE INDICA		/		
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A03	05464	4	N
ment for Male and age 22-24 Sum of log of earnings of beginning-of-period employ-	LNWB_A1A04	05476	4	N
ment for Male and age 25-34	LNWB_ATAU4	05470	4	IN
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A05	05488	1	N
ment for Male and age 35-44	LNWB_ATAU0	05466	4	IN
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A06	05500	4	N
ment for Male and age 45-54	LNWD_ATAUU	05500	4	11
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A07	05512	4	N
ment for Male and age 55-64	LIVWD_IIIIO (00012	7	11
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A08	05524	4	N
ment for Male and age 65-99	LIVWD_IIII100	00024	7	11
Sum of log of earnings of end-of-period employment	LNWE_A2A01	05984	4	N
for Female and age 14-18	LIVWE_ITZITOT	00304	7	11
Sum of log of earnings of end-of-period employment	LNWE_A2A00	05972	4	N
for Female and age 14-99	LIVWE_1121100	00312	4	11
Sum of log of earnings of end-of-period employment	LNWE_A2A02	05996	4	N
for Female and age 19-21	LIVWE-1121102	00000	7	11
Sum of log of earnings of end-of-period employment	LNWE_A2A03	06008	4	N
for Female and age 22-24	LIVWE_ITE ITO	00000	1	11
Sum of log of earnings of end-of-period employment	LNWE_A2A04	06020	4	N
for Female and age 25-34	DIVVIDENTE NOT	00020	-	11
Sum of log of earnings of end-of-period employment	LNWE_A2A05	06032	4	N
for Female and age 35-44	DI () DE 11 10 0	00002	-	
Sum of log of earnings of end-of-period employment	LNWE_A2A06	06044	$_4$	N
for Female and age 45-54		000		
Sum of log of earnings of end-of-period employment	$LNWE_A2A07$	06056	4	N
for Female and age 55-64				
Sum of log of earnings of end-of-period employment	LNWE_A2A08	06068	4	N
for Female and age 65-99				
Sum of log of earnings of end-of-period employment	LNWE_A0A01	05976	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	LNWE_A0A00	05964	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	LNWE_A0A02	05988	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	LNWE_A0A03	06000	4	N
for Male and Female and age 2				
Sum of log of earnings of end-of-period employment	$LNWE_A0A04$	06012	4	N
for Male and Female and age 2				
Sum of log of earnings of end-of-period employment	$LNWE_A0A05$	06024	4	N
for Male and Female and age 3				
Sum of log of earnings of end-of-period employment	LNWE_A0A06	06036	4	N
for Male and Female and age 4				
Sum of log of earnings of end-of-period employment	$LNWE_A0A07$	06048	4	N
for Male and Female and age 5				
Sum of log of earnings of end-of-period employment	$LNWE_A0A08$	06060	4	N
for Male and Female and age 6				
Sum of log of earnings of end-of-period employment	LNWE_A1A01	05980	4	N
for Male and age 14-18				

Field name			Field	Data
Field name	Data dictionary reference name	Starting position	size	type
Sum of log of earnings of end-of-period employment	LNWE_A1A00	05968	4	N
for Male and age 14-99	LNWE_ATAOU	05300	4	11
Sum of log of earnings of end-of-period employment	LNWE_A1A02	05992	4	N
for Male and age 19-21	LNWE_ATAU2	00992	4	11
Sum of log of earnings of end-of-period employment	LNWE_A1A03	06004	4	N
for Male and age 22-24	LNWE_ATAOS	00004	4	11
Sum of log of earnings of end-of-period employment	LNWE_A1A04	06016	4	N
for Male and age 25-34	LINWE_7117104	00010	4	11
Sum of log of earnings of end-of-period employment	LNWE_A1A05	06028	4	N
for Male and age 35-44	LIVE_IIII00	00020	1	11
Sum of log of earnings of end-of-period employment	LNWE_A1A06	06040	4	N
for Male and age 45-54	DIVELITIOO	00010	1	11
Sum of log of earnings of end-of-period employment	LNWE_A1A07	06052	4	N
for Male and age 55-64	ENWE-HITOT	00002	-	11
Sum of log of earnings of end-of-period employment	LNWE_A1A08	06064	4	N
for Male and age 65-99	LIWE_7117100	40004	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A01	06524	4	N
Female and age 14-18	LNWF_AZA01	00324	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A00	06512	4	N
Female and age 14-99	LNWF_AZA00	00312	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A02	06536	4	N
Female and age 19-21	LNWF_AZAUZ	00550	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A03	06548	4	N
Female and age 22-24	LNWF_A2A03	00546	4	IN
Sum of log of earnings of full-quarter employment for	LNWF_A2A04	06560	4	N
Female and age 25-34	LNWF_AZAU4	00300	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A05	06572	4	N
Female and age 35-44	LNWF_AZA05	00312	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A06	06584	4	N
Female and age 45-54	LNWF_AZAOO	00304	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A07	06596	4	N
Female and age 55-64	LNWF_AZAOT	00590	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A08	06608	4	N
Female and age 65-99	LNWF_AZAU6	00000	4	IN
Sum of log of earnings of full-quarter employment for	LNWF_A0A01	06516	4	N
Male and Female and age 14	LNWF_AUAU1	00310	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A0A00	06504	4	N
Male and Female and age 14	LNWF_AUAUU	00304	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A0A02	06528	4	N
Male and Female and age 19	LNWF_AUAU2	00020	4	IN
Sum of log of earnings of full-quarter employment for	LNWF_A0A03	06540	1	N
Male and Female and age 22	LNWF_AUAU3	00540	4	IN
Sum of log of earnings of full-quarter employment for	LNWF_A0A04	06552	4	N
Male and Female and age 25	LNWF_AUAU4	00552	4	11
	LNWF_A0A05	06564	4	N
Sum of log of earnings of full-quarter employment for	LNWF_AUAU3	00504	4	IN
Male and Female and age 35	LNWF_A0A06	06576	4	N
Sum of log of earnings of full-quarter employment for	LNWF_AUAUU	00070	4	1N
Male and Female and age 45	LANGE AOAO7	UGEOO	А	N T
Sum of log of earnings of full-quarter employment for Male and Female and age 55	LNWF_A0A07	06588	4	N
mare and remare and age 99				

 $Page\ 206$ $LEHD ext{-}OVERVIEW ext{-}S2004$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAITER 1. QUARTERED WORKFORCE INDICA		· - /		
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Sum of log of earnings of full-quarter employment for	LNWF_A0A08	06600	4	N
Male and Female and age 65	A 1 A O 1	0.0500	4	N.T.
Sum of log of earnings of full-quarter employment for	LNWF_A1A01	06520	4	N
Male and age 14-18	4.1.4.00	00500	4	3.7
Sum of log of earnings of full-quarter employment for	LNWF_A1A00	06508	4	N
Male and age 14-99	4.1.4.00	00500	4	3.7
Sum of log of earnings of full-quarter employment for	LNWF_A1A02	06532	4	N
Male and age 19-21	A1A00	00514	4	N.T.
Sum of log of earnings of full-quarter employment for	LNWF_A1A03	06544	4	N
Male and age 22-24	****** A 1 A 0 4	OCEEC	4	N.T.
Sum of log of earnings of full-quarter employment for	LNWF_A1A04	06556	4	N
Male and age 25-34	A 1 A 0 F	0.05.00	4	N.T.
Sum of log of earnings of full-quarter employment for	LNWF_A1A05	06568	4	N
Male and age 35-44	4.1.4.0.0	00500	4	3.7
Sum of log of earnings of full-quarter employment for	LNWF_A1A06	06580	4	N
Male and age 45-54	A 1 A 0 H	0.0500	4	3.7
Sum of log of earnings of full-quarter employment for	$LNWF_A1A07$	06592	4	N
Male and age 55-64	A 1 A 00	00001	4	3.7
Sum of log of earnings of full-quarter employment for	LNWF_A1A08	06604	4	N
Male and age 65-99	10101	05550		3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A01	05552	4	N
ployment for Female and age	40400	02240		3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A00	05540	4	N
ployment for Female and age	40400	05501		3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A02	05564	4	N
ployment for Female and age		OFFE	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A03	05576	4	N
ployment for Female and age		05500	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A04	05588	4	N
ployment for Female and age	40405	05000	4	3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A05	05600	4	N
ployment for Female and age	10100	05010		3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A06	05612	4	N
ployment for Female and age	40407	05004	4	3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A07	05624	4	N
ployment for Female and age		05000	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A08	05636	4	N
ployment for Female and age	40401	05544	4	3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A01	05544	4	N
ployment for Male and Female	40400	05500	4	3.7
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A00	05532	4	N
ployment for Male and Female		OFFE	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A02	05556	4	N
ployment for Male and Female	*******	05500	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A03	05568	4	N
ployment for Male and Female		05500	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A04	05580	4	N
ployment for Male and Female	A O A OF	08800	4	3. T
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A05	05592	4	N
ployment for Male and Female				

CHAPTER 7. QUARTERLY WORK			` -	
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A06	05604	4	N
ployment for Male and Female Sum of log of lag earnings of beginning-of-period em-	INVENTED A 0 A 0.7	05616	4	N
ployment for Male and Female	LNWBLG_A0A07	09010	4	1N
- v	LANGER A O A O O	05600	4	N
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A08	05628	4	1N
ployment for Male and Female Sum of log of lag earnings of beginning-of-period em-	LANGUE G. A 1 A O1	05540	4	N
ployment for Male and age 14	LNWBLG_A1A01	05548	4	1N
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A00	05536	4	N
ployment for Male and age 14	LNWBLG_ATAU0	05550	4	11
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A02	05560	4	N
ployment for Male and age 19	LNWBLG_ATAU2	05500	4	11
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A03	05572	4	N
ployment for Male and age 22	LNWBLG_ATAU3	05572	4	11
- *	LNWBLG_A1A04	05584	4	N
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A04	09994	4	1N
ployment for Male and age 25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05596	4	NT.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A05	05590	4	N
ployment for Male and age 35	LANGER A 1 A OF	05600	4	NT
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A06	05608	4	N
ployment for Male and age 45	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05690	4	NT.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A07	05620	4	N
ployment for Male and age 55	*******	05000	4	N.T.
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A08	05632	4	N
ployment for Male and age 65	*******	00740	4	N.T.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A01	06740	4	N
for Female and age 14-18	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	06700	4	NT.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A00	06728	4	N
for Female and age 14-99	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	06750	4	NT.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A02	06752	4	N
for Female and age 19-21	*******	0.07.04	4	N.T.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A03	06764	4	N
for Female and age 22-24	*******	0.077.0	4	N.T.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A04	06776	4	N
for Female and age 25-34	LNWFLG_A2A05	06788	4	NT.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A05	00788	4	N
for Female and age 35-44	LNWFLG_A2A06	06800	4	NT
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A00	00800	4	N
for Female and age 45-54	12 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	00010	4	NT.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A07	06812	4	N
for Female and age 55-64	124477 G A 0 A 0 0	06004	4	NT.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A08	06824	4	N
for Female and age 65-99 Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A01	06732	4	N
for Male and Female and ag	LNWFLG_AUAU1	00132	4	11
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A00	06720	4	N
for Male and Female and ag	LNWFLG_AUAUU	00720	4	11
e e e e e e e e e e e e e e e e e e e	LNWFLG_A0A02	06744	4	N
Sum of log of lag earnings of full-quarter employment for Male and Female and ag	LINWFLG_AUAUZ	00744	4	IN
	INVELO ADADS	06756	1	N
Sum of log of lag earnings of full-quarter employment for Male and Female and ag	LNWFLG_A0A03	06100	4	IN
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 $Page\ 208$ $LEHD ext{-}OVERVIEW ext{-}S2004$

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 1. QUARTERED WORKFORCE INDICA				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A04	06768	4	N
for Male and Female and ag	4040	0.0=00		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A05	06780	4	N
for Male and Female and ag	10100			
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A06	06792	4	N
for Male and Female and ag	1010-			
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A07	06804	4	N
for Male and Female and ag	4.0.4.00	0.001.0		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A08	06816	4	N
for Male and Female and ag	44.404	0.0=0.0		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A01	06736	4	N
for Male and age 14-18	4.4.4.00	0.0=0.4		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A00	06724	4	N
for Male and age 14-99	44400	0.0=10		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A02	06748	4	N
for Male and age 19-21	4.4.4.00	0.0=00		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A03	06760	4	N
for Male and age 22-24	A 1 A 0 A	0.0770		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A04	06772	4	N
for Male and age 25-34	4440	0.0=0.4		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A05	06784	4	N
for Male and age 35-44	44400	0.0=0.0		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A06	06796	4	N
for Male and age 45-54	4440	0.000		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A07	06808	4	N
for Male and age 55-64	A 1 A 0 0	0,000	4	N.T.
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A08	06820	4	N
for Male and age 65-99	******* A O A O 1	0,000	4	TN T
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A01	06092	4	N
ment for Female and age 14-18	A Q A Q Q	0,000	4	N.T.
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A00	06080	4	N
ment for Female and age 14-99	********	06104	4	TN T
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A02	06104	4	N
ment for Female and age 19-21	*******	00110	4	TN T
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A03	06116	4	N
ment for Female and age 22-24	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	06100	4	NT
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A04	06128	4	N
ment for Female and age 25-34	12000 D A O A O E	06140	4	N
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A05	06140	4	N
ment for Female and age 35-44	1 N 1 D A O A O C	06150	4	N
Sum of log of lead earnings of end-of-period employment for Female and age 45-54	LNWELD_A2A06	06152	4	1N
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A07	06164	4	N
ment for Female and age 55-64	LNWELD_A2A01	00104	4	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A08	06176	4	N
	LNWELD_AZAU6	00170	4	11
ment for Female and age 65-99	1. NY 17 D. A.O.A.O.1	06004	4	N
Sum of log of lead earnings of end-of-period employment for Male and Female and	LNWELD_A0A01	06084	4	N
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A00	06072	1	N
ment for Male and Female and	LNWELD_AUAUU	00072	4	1N
ment tot mate and remate and				

CHAPTER 7. QUARTERLY WORK			, , ,	
Field name	Data dictionary	Starting	Field	Data
Sum of log of lead company of and of naried employ	reference name	position 06096	size 4	type
Sum of log of lead earnings of end-of-period employment for Male and Female and	LNWELD_A0A02	00090	4	IN
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A03	06108	4	N
ment for Male and Female and	LIVWELD_AUAU3	00100	4	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A04	06120	4	N
ment for Male and Female and	LIVWELD_IIOIIO4	00120	7	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A05	06132	4	N
ment for Male and Female and	DIVIDED LITOTION	00102	-	1,
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A06	06144	4	N
ment for Male and Female and				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A07	06156	4	N
ment for Male and Female and				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A08	06168	4	N
ment for Male and Female and				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A01	06088	4	\mathbf{N}
ment for Male and age 14-18				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A00	06076	4	\mathbf{N}
ment for Male and age 14-99				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A02	06100	4	N
ment for Male and age 19-21				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A03	06112	4	\mathbf{N}
ment for Male and age 22-24				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A04	06124	4	\mathbf{N}
ment for Male and age 25-34				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A05	06136	4	N
ment for Male and age 35-44	4.4.00	0.01.10		
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A06	06148	4	N
ment for Male and age 45-54	4440=	00100		3.7
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A07	06160	4	N
ment for Male and age 55-64	********	00170	4	N.T.
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A08	06172	4	N
ment for Male and age 65-99	LNWFLD_A2A01	06632	4	N
Sum of log of lead earnings of full-quarter employment for Female and age 14-18	LNWFLD_A2A01	00032	4	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A00	06620	4	N
for Female and age 14-99	LIVWF LD_I121100	00020	7	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A02	06644	4	N
for Female and age 19-21	ENWI EDERIZIOZ	00011	1	1,
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A03	06656	4	N
for Female and age 22-24		30000		
Sum of log of lead earnings of full-quarter employment	$LNWFLD_A2A04$	06668	4	N
for Female and age 25-34				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A05	06680	4	N
for Female and age 35-44				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A06	06692	4	N
for Female and age 45-54				
Sum of log of lead earnings of full-quarter employment	$LNWFLD_A2A07$	06704	4	N
for Female and age 55-64				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A08	06716	4	N
for Female and age 65-99				

Page 210

LEHD-OVERVIEW-S2004

Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Eigld name		(- /	T71 - 1 - 1	Dot-
Field name	Data dictionary reference name	Starting position	Field size	Data type
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A01	06624	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A00	06612	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	$LNWFLD_A0A02$	06636	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A03	06648	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A04	06660	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A05	06672	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A06	06684	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A07	06696	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	$LNWFLD_AOAO8$	06708	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A01	06628	4	N
for Male and age 14-18				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A00	06616	4	N
for Male and age 14-99				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A02	06640	4	N
for Male and age 19-21				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A03	06652	4	N
for Male and age 22-24				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A04	06664	4	N
for Male and age 25-34				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A05	06676	4	N
for Male and age 35-44				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A06	06688	4	N
for Male and age 45-54				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A07	06700	4	N
for Male and age 55-64				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A08	06712	4	N
for Male and age 65-99				
Total earnings of separations for Female and age 14-18	WS_A2A01	04580	4	N
Total earnings of separations for Female and age 14-99	WS_A2A00	04568	4	N
Total earnings of separations for Female and age 19-21	WS_A2A02	04592	4	N
Total earnings of separations for Female and age 22-24	WS_A2A03	04604	4	N
Total earnings of separations for Female and age 25-34	WS_A2A04	04616	4	N
· ·				
Total earnings of separations for Female and age 35-44	WS_A2A05	04628	4	N
-				
Total earnings of separations for Female and age 45-54	WS_A2A06	04640	4	N

Field name	Data dictionary	Starting	Field	Data
r ieid name	reference name	position	size	type
Total earnings of separations for Female and age 55-64	WS_A2A07	04652	4	N
		0 -00 -	_	
Total earnings of separations for Female and age 65-99	WS_A2A08	04664	4	N
Total earnings of separations for Male and Female and age $14-18$	WS_A0A01	04572	4	N
Total earnings of separations for Male and Female and	WS_A0A00	04560	4	N
age 14-99 Total earnings of separations for Male and Female and	WS_A0A02	04584	4	N
age 19-21 Total earnings of separations for Male and Female and age 22-24	WS_A0A03	04596	4	N
Total earnings of separations for Male and Female and age 25-34	WS_A0A04	04608	4	N
Total earnings of separations for Male and Female and age 35-44	WS_A0A05	04620	4	N
Total earnings of separations for Male and Female and age 45-54	WS_A0A06	04632	4	N
Total earnings of separations for Male and Female and	WS_A0A07	04644	4	N
age 55-64 Total earnings of separations for Male and Female and	WS_A0A08	04656	4	N
age 65-99 Total earnings of separations for Male and age 14-18	WS_A1A01	04576	4	N
Total earnings of separations for Male and age 14-19	WS_A1A00	04564	4	N
Total earnings of separations for Male and age 14-99 Total earnings of separations for Male and age 19-21	WS_A1A00 WS_A1A02	04588	4	N
Total earnings of separations for Male and age 22-24	WS_A1A03	04600	4	N
Total earnings of separations for Male and age 25-34	WS_A1A04	04612	4	N
Total earnings of separations for Male and age 35-44	WS_A1A05	04624	4	N
Total earnings of separations for Male and age 45-54	WS_A1A06	04636	4	N
Total earnings of separations for Male and age 55-64	WS_A1A07	04648	4	N
Total earnings of separations for Male and age 65-99	WS_A1A08	04660	4	N
Total earnings of separations from full-quarter status	WFS_A2A01	04796	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A00	04784	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A02	04808	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A03	04820	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A04	04832	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFSA2A05	04844	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A06	04856	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A07	04868	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A08	04880	4	N

Page 212 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Eight cons		· · ·	T2: -1.1	D-4-
Field name	Data dictionary reference name	Starting position	Field size	Data
Total compines of conceptions from full quantum status	WFS_A0A01	04788	size 4	type N18
Total earnings of separations from full-quarter status (most recent full quarter	WFS_AUAUI	04100	4	N16
`	WES ASASS	0.4776	4	MOO
Total earnings of separations from full-quarter status	WFS_A0A00	04776	4	N99
(most recent full quarter	MUEC ADADO	0.4000	4	N10.1
Total earnings of separations from full-quarter status	WFS_A0A02	04800	4	N21
(most recent full quarter	TATEC A O A O O	04010	4	NIO 4
Total earnings of separations from full-quarter status	WFS_A0A03	04812	4	N24
(most recent full quarter	TATEC A O A O A	0.400.4	4	NTO 4
Total earnings of separations from full-quarter status	WFS_A0A04	04824	4	N34
(most recent full quarter	TATEC A O A OF	0.409.6	4	NT 4.4
Total earnings of separations from full-quarter status	WFS_A0A05	04836	4	N44
(most recent full quarter	HIEG ADAGE	0.40.40	4	3.TF 4
Total earnings of separations from full-quarter status	WFS_A0A06	04848	4	N54
(most recent full quarter	THE A A A A SE	0.40.00		NIGA
Total earnings of separations from full-quarter status	WFS_A0A07	04860	4	N64
(most recent full quarter	THE A LOAD	0.40-0		3.100
Total earnings of separations from full-quarter status	WFS_A0A08	04872	4	N99
(most recent full quarter	TITE A LOA	0.4500		3.7
Total earnings of separations from full-quarter status	WFS_A1A01	04792	4	N
(most recent full quarter	THEO ALLOO	0.4500		3.7
Total earnings of separations from full-quarter status	WFS_A1A00	04780	4	N
(most recent full quarter	*******			
Total earnings of separations from full-quarter status	WFS_A1A02	04804	4	N
(most recent full quarter	*******			
Total earnings of separations from full-quarter status	WFS_A1A03	04816	4	N
(most recent full quarter	*******			
Total earnings of separations from full-quarter status	WFS_A1A04	04828	4	N
(most recent full quarter	******			
Total earnings of separations from full-quarter status	WFS_A1A05	04840	4	N
(most recent full quarter	*******			
Total earnings of separations from full-quarter status	WFS_A1A06	04852	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A07	04864	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A08	04876	4	N
(most recent full quarter				
Total payroll of accessions for Female and age 14-18	WA_A2A01	03716	4	N
Total payroll of accessions for Female and age 14-99	WA_A2A00	03704	4	N
Total payroll of accessions for Female and age 19-21	WA_A2A02	03728	4	N
Total payroll of accessions for Female and age 22-24	WA_A2A03	03740	4	N
Total payroll of accessions for Female and age 25-34	WA_A2A04	03752	4	N
Total payroll of accessions for Female and age 35-44	WA_A2A05	03764	4	N
Total payroll of accessions for Female and age 45-54	WA_A2A06	03776	4	N
Total payroll of accessions for Female and age 55-64	WA_A2A07	03788	4	N
Total payroll of accessions for Female and age 65-99	WA_A2A08	03800	4	N
Total payroll of accessions for Male and Female and	WA_A0A01	03708	4	N
age 14-18				
Total payroll of accessions for Male and Female and	WA_A0A00	03696	4	N
age 14-99				

CHAITER 7. QUARTERLI WORK				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Total payroll of accessions for Male and Female and age 19-21	WA_A0A02	03720	4	N
Total payroll of accessions for Male and Female and age 22-24	WA_A0A03	03732	4	N
Total payroll of accessions for Male and Female and	WA_A0A04	03744	4	N
age 25-34 Total payroll of accessions for Male and Female and	WA_A0A05	03756	4	N
age 35-44 Total payroll of accessions for Male and Female and	WA_A0A06	03768	4	N
age 45-54				N
Total payroll of accessions for Male and Female and age 55-64	WA_A0A07	03780	4	IN
Total payroll of accessions for Male and Female and age 65-99	WA_A0A08	03792	4	N
Total payroll of accessions for Male and age 14-18	WA_A1A01	03712	4	N
Total payroll of accessions for Male and age 14-99	WA_A1A00	03700	4	N
Total payroll of accessions for Male and age 19-21	WA_A1A02	03724	4	N
Total payroll of accessions for Male and age 22-24	WA_A1A03	03736	4	N
Total payroll of accessions for Male and age 25-34	WA_A1A04	03748	4	N
Total payroll of accessions for Male and age 35-44	WA_A1A05	03760	4	N
Total payroll of accessions for Male and age 45-54	WA_A1A06	03772	4	N
- •				
Total payroll of accessions for Male and age 55-64	WA_A1A00	03784	4	N
Total payroll of accessions for Male and age 65-99	WA_A1A08	03796	4	N
Total payroll of all employees for Female and age 14-18	W1_A2A01	03284	4	N
Total payroll of all employees for Female and age 14-99	W1_A2A00	03272	4	N
Total payroll of all employees for Female and age 19-21	W1_A2A02	03296	4	N
Total payroll of all employees for Female and age $22\text{-}24$	W1_A2A03	03308	4	N
Total payroll of all employees for Female and age 25-34	W1_A2A04	03320	4	N
Total payroll of all employees for Female and age 35-44	W1_A2A05	03332	4	N
Total payroll of all employees for Female and age 45-54	W1_A2A06	03344	4	N
Total payroll of all employees for Female and age 55-64	W1_A2A07	03356	4	N
Total payroll of all employees for Female and age 65-99	W1_A2A08	03368	4	N
Total payroll of all employees for Male and Female and age 14-18	W1_A0A01	03276	4	N
Total payroll of all employees for Male and Female and age 14-99	W1_A0A00	03264	4	N
Total payroll of all employees for Male and Female and age 19-21	W1_A0A02	03288	4	N
Total payroll of all employees for Male and Female and age 22-24	W1_A0A03	03300	4	N

LEHD-OVERVIEW-S2004Page 214 Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Total payroll of all employees for Male and Female and age 25-34	W1_A0A04	03312	4	N
Total payroll of all employees for Male and Female and age 35-44	W1_A0A05	03324	4	N
Total payroll of all employees for Male and Female and age 45-54	W1_A0A06	03336	4	N
Total payroll of all employees for Male and Female and	W1_A0A07	03348	4	N
age 55-64 Total payroll of all employees for Male and Female and age 65-99	W1_A0A08	03360	4	N
Total payroll of all employees for Male and age 14-18	W1_A1A01	03280	4	N
Total payroll of all employees for Male and age 14-99	W1_A1A00	03268	4	N
Total payroll of all employees for Male and age 19-21	$W1_A1A02$	03292	4	N
Total payroll of all employees for Male and age 22-24	W1_A1A03	03304	4	N
Total payroll of all employees for Male and age 25-34	$W1_A1A04$	03316	4	N
Total payroll of all employees for Male and age 35-44	$W1_A1A05$	03328	4	N
Total payroll of all employees for Male and age 45-54	$W1_A1A06$	03340	4	N
Total payroll of all employees for Male and age 55-64	$W1_A1A07$	03352	4	N
Total payroll of all employees for Male and age 65-99	W1_A1A08	03364	4	N
Total payroll of end-of-period employees for Female and age 14-18	W2_A2A01	03392	4	N
Total payroll of end-of-period employees for Female and age 14-99	W2_A2A00	03380	4	N
Total payroll of end-of-period employees for Female and age 19-21	W2_A2A02	03404	4	N
Total payroll of end-of-period employees for Female and age 22-24	W2_A2A03	03416	4	N
Total payroll of end-of-period employees for Female and age 25-34	W2_A2A04	03428	4	N
Total payroll of end-of-period employees for Female	W2_A2A05	03440	4	N
and age 35-44 Total payroll of end-of-period employees for Female	W2_A2A06	03452	4	N
and age 45-54 Total payroll of end-of-period employees for Female	W2_A2A07	03464	4	N
and age 55-64 Total payroll of end-of-period employees for Female	W2_A2A08	03476	4	N
and age 65-99 Total payroll of end-of-period employees for Male and	W2_A0A01	03384	4	N
Female and age 14-18 Total payroll of end-of-period employees for Male and	W2_A0A00	03372	4	N
Female and age 14-99				
Total payroll of end-of-period employees for Male and Female and age 19-21	W2_A0A02	03396	4	N
Total payroll of end-of-period employees for Male and Female and age 22-24	W2_A0A03	03408	4	N
Total payroll of end-of-period employees for Male and Female and age 25-34	W2_A0A04	03420	4	N
Total payroll of end-of-period employees for Male and Female and age 35-44	W2_A0A05	03432	4	N

Field name			Field	Data
Field name	Data dictionary reference name	Starting position	size	type
Total payroll of end-of-period employees for Male and	W2_A0A06	03444	4	N
Female and age 45-54		00		
Total payroll of end-of-period employees for Male and	W2_A0A07	03456	4	N
Female and age 55-64				
Total payroll of end-of-period employees for Male and	$W2_A0A08$	03468	4	N
Female and age 65-99				
Total payroll of end-of-period employees for Male and	$W2_A1A01$	03388	4	N
age 14-18				
Total payroll of end-of-period employees for Male and	W2_A1A00	03376	4	N
age 14-99				
Total payroll of end-of-period employees for Male and	$W2_A1A02$	03400	4	N
age 19-21				
Total payroll of end-of-period employees for Male and	W2_A1A03	03412	4	N
age 22-24				
Total payroll of end-of-period employees for Male and	W2_A1A04	03424	4	N
age 25-34				
Total payroll of end-of-period employees for Male and	$W2_A1A05$	03436	4	N
age 35-44	TTT0 1 1 1 0 0	00440		3.7
Total payroll of end-of-period employees for Male and	W2_A1A06	03448	4	N
age 45-54	TITO A 1 A OF	00.400		TA T
Total payroll of end-of-period employees for Male and	W2_A1A07	03460	4	N
age 55-64	THO Ad Ago	00.450		TA T
Total payroll of end-of-period employees for Male and	W2_A1A08	03472	4	N
age 65-99	IIIO AOAO1	00500	4	ът
Total payroll of full-quarter employees for Female and	W3_A2A01	03500	4	N
age 14-18 Total payroll of full-quarter employees for Female and	W2 A2A00	03488	4	N
- * *	W3_A2A00	03400	4	1N
age 14-99 Total payroll of full-quarter employees for Female and	W3_A2A02	03512	4	N
age 19-21	W 3_A2A02	03312	4	11
Total payroll of full-quarter employees for Female and	W3_A2A03	03524	4	N
age 22-24	W 5_A2A05	05524	4	11
Total payroll of full-quarter employees for Female and	W3_A2A04	03536	4	N
age 25-34	VV 0=1121104	09990	7	1,
Total payroll of full-quarter employees for Female and	W3_A2A05	03548	4	N
age 35-44	W 021121100	00010	1	1,
Total payroll of full-quarter employees for Female and	W3_A2A06	03560	4	N
age 45-54	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	33333	_	
Total payroll of full-quarter employees for Female and	W3_A2A07	03572	4	N
age 55-64				
Total payroll of full-quarter employees for Female and	W3_A2A08	03584	4	N
age 65-99				
Total payroll of full-quarter employees for Male and	W3_A0A01	03492	4	N
Female and age 14-18				
Total payroll of full-quarter employees for Male and	W3_A0A00	03480	4	\mathbf{N}
Female and age 14-99				
Total payroll of full-quarter employees for Male and	W3_A0A02	03504	4	N
Female and age 19-21				
Total payroll of full-quarter employees for Male and	$W3_A0A03$	03516	4	N
Female and age 22-24				

Page 216

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICA		<u> </u>	D: 11	D :
Field name	Data dictionary reference name	Starting position	Field size	Data
Total payroll of full-quarter employees for Male and	W3_A0A04	03528	size 4	type
Female and age 25-34	W 3_AUAU4	03328	4	11
Total payroll of full-quarter employees for Male and	W3_A0A05	03540	4	N
Female and age 35-44	VV 021101100	00010	1	11
Total payroll of full-quarter employees for Male and	W3_A0A06	03552	4	N
Female and age 45-54				
Total payroll of full-quarter employees for Male and	W3_A0A07	03564	4	N
Female and age 55-64				
Total payroll of full-quarter employees for Male and	W3_A0A08	03576	4	N
Female and age 65-99				
Total payroll of full-quarter employees for Male and	W3_A1A01	03496	4	N
age 14-18				
Total payroll of full-quarter employees for Male and	$W3_A1A00$	03484	4	N
age 14-99				
Total payroll of full-quarter employees for Male and	$W3_A1A02$	03508	4	N
age 19-21				
Total payroll of full-quarter employees for Male and	W3_A1A03	03520	4	N
age 22-24				
Total payroll of full-quarter employees for Male and	W3_A1A04	03532	4	N
age $25-34$				
Total payroll of full-quarter employees for Male and	W3_A1A05	03544	4	N
age 35-44				
Total payroll of full-quarter employees for Male and	W3_A1A06	03556	4	N
age 45-54	****			
Total payroll of full-quarter employees for Male and	W3_A1A07	03568	4	N
age 55-64	TITO A 1 A OO	00500	4	N.T.
Total payroll of full-quarter employees for Male and	W3_A1A08	03580	4	N
age 65-99	TITLE ADAO1	02600	4	N.T.
Total payroll of new hires to full-quarter status for	WH3_A2A01	03608	4	N
Female and age 14-18 Total narrell of new bines to full question status for	WILLS ASAGO	02506	4	N
Total payroll of new hires to full-quarter status for Female and age 14-99	WH3_A2A00	03596	4	N
Total payroll of new hires to full-quarter status for	WH3_A2A02	03620	4	N
Female and age 19-21	W113_A2A02	03020	4	IN
Total payroll of new hires to full-quarter status for	WH3_A2A03	03632	4	N
Female and age 22-24	W110_A2A00	03032	4	11
Total payroll of new hires to full-quarter status for	WH3_A2A04	03644	4	N
Female and age 25-34	W110_1121104	00044	-	11
Total payroll of new hires to full-quarter status for	WH3_A2A05	03656	4	N
Female and age 35-44	W110211 2 1100	00000	•	11
Total payroll of new hires to full-quarter status for	WH3_A2A06	03668	4	N
Female and age 45-54				
Total payroll of new hires to full-quarter status for	WH3_A2A07	03680	4	N
Female and age 55-64				
Total payroll of new hires to full-quarter status for	WH3_A2A08	03692	4	N
Female and age 65-99				
Total payroll of new hires to full-quarter status for	WH3_A0A01	03600	4	N
Male and Female and age 14				
Total payroll of new hires to full-quarter status for	$WH3_A0A00$	03588	4	N
Male and Female and age 14				

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK			, , ,	
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total payroll of new hires to full-quarter status for	WH3_A0A02	03612	4	N
Male and Female and age 19	W110_AUAU2	03012	4	11
Total payroll of new hires to full-quarter status for	WH3_A0A03	03624	4	N
Male and Female and age 22	W110_N07100	03024	4	11
Total payroll of new hires to full-quarter status for	WH3_A0A04	03636	4	N
Male and Female and age 25	W113_A0A04	05050	4	11
Total payroll of new hires to full-quarter status for	WH3_A0A05	03648	4	N
Male and Female and age 35	VV 110_1101100	03040	4	11
Total payroll of new hires to full-quarter status for	WH3_A0A06	03660	4	N
Male and Female and age 45	W119_1101100	09000	-	11
Total payroll of new hires to full-quarter status for	WH3_A0A07	03672	4	N
Male and Female and age 55	W1192/10/10/	00012	-	11
Total payroll of new hires to full-quarter status for	WH3_A0A08	03684	4	N
Male and Female and age 65	W 119_7107100	03004	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A01	03604	4	N
Male and age 14-18	WIIS_ATAUT	03004	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A00	03592	4	N
Male and age 14-99	W113_A1A00	03392	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A02	03616	4	N
Male and age 19-21	W113_A1A02	03010	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A03	03628	4	N
Male and age 22-24	WIIS_ATAUS	03028	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A04	03640	4	N
	W Π3_A1AU4	05040	4	IN
Male and age 25-34 Total payrell of payr bines to full quarter status for	WU2 A1A05	03652	4	N
Total payroll of new hires to full-quarter status for	WH3_A1A05	03052	4	IN
Male and age 35-44 Total payroll of new hires to full-quarter status for	WH3_A1A06	03664	4	N
Male and age 45-54	W113_A1A00	03004	4	11
Total payroll of new hires to full-quarter status for	WH3_A1A07	03676	4	N
	W H5_ATAU?	05070	4	1N
Male and age 55-64 Total payroll of new hires to full-quarter status for	WH3_A1A08	02600	4	NT
1 0	W H3_ATAU8	03688	4	N
Male and age 65-99	WCA ARADI	02020	4	NT
Total payroll of transits to consecutive-quarter status	WCA_A2A01	03932	4	N
for Female and age 14-18	WCA ARADO	02000	4	NT
Total payroll of transits to consecutive-quarter status	WCA_A2A00	03920	4	N
for Female and age 14-99	IUCA ARADA	02044	4	N.T.
Total payroll of transits to consecutive-quarter status	WCA_A2A02	03944	4	N
for Female and age 19-21	THE A ASAGS	00050		N.T.
Total payroll of transits to consecutive-quarter status	WCA_A2A03	03956	4	N
for Female and age 22-24	THE A AGAGA	00000		N.T.
Total payroll of transits to consecutive-quarter status	WCA_A2A04	03968	4	N
for Female and age 25-34	THE A ACADE	00000	4	N.T.
Total payroll of transits to consecutive-quarter status	WCA_A2A05	03980	4	N
for Female and age 35-44	THOA AGAGG	02002		78.77
Total payroll of transits to consecutive-quarter status	WCA_A2A06	03992	4	N
for Female and age 45-54	TIO 4 4 0 4 0 7	0.400.4	,	3.7
Total payroll of transits to consecutive-quarter status	WCA_A2A07	04004	4	N
for Female and age 55-64	*****			
Total payroll of transits to consecutive-quarter status	WCA_A2A08	04016	4	N
for Female and age 65-99				

LEHD-OVERVIEW-S2004 $Page\ 218$

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 1. QUARTERED WORKFORCE INDICA		· - /		
Field name	Data dictionary	Starting	Field	Data
TD + 1 11 C + 2 + 4	reference name	position	size	type
Total payroll of transits to consecutive-quarter status for Male and Female and	WCA_A0A01	03924	4	N
Total payroll of transits to consecutive-quarter status	WCA_A0A00	03912	4	N
for Male and Female and	WCA_A0A00	03912	4	11
Total payroll of transits to consecutive-quarter status	WCA_A0A02	03936	4	N
for Male and Female and	W 011_1101102	03330	4	11
Total payroll of transits to consecutive-quarter status	WCA_A0A03	03948	4	N
for Male and Female and	W 01121101100	00010		11
Total payroll of transits to consecutive-quarter status	WCA_A0A04	03960	4	N
for Male and Female and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00000		
Total payroll of transits to consecutive-quarter status	WCA_A0A05	03972	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A06	03984	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A07	03996	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A08	04008	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A1A01	03928	4	\mathbf{N}
for Male and age 14-18				
Total payroll of transits to consecutive-quarter status	WCA_A1A00	03916	4	N
for Male and age 14-99				
Total payroll of transits to consecutive-quarter status	WCA_A1A02	03940	4	N
for Male and age 19-21				
Total payroll of transits to consecutive-quarter status	WCA_A1A03	03952	4	N
for Male and age 22-24				
Total payroll of transits to consecutive-quarter status	WCA_A1A04	03964	4	N
for Male and age 25-34				
Total payroll of transits to consecutive-quarter status	WCA_A1A05	03976	4	N
for Male and age 35-44				
Total payroll of transits to consecutive-quarter status	WCA_A1A06	03988	4	N
for Male and age 45-54				
Total payroll of transits to consecutive-quarter status	WCA_A1A07	04000	4	N
for Male and age 55-64		0.404.0		
Total payroll of transits to consecutive-quarter status	WCA_A1A08	04012	4	N
for Male and age 65-99	THEA AGAGE	0.40.40		3.7
Total payroll of transits to full-quarter status for Fe-	WFA_A2A01	04040	4	N
male and age 14-18	THE A DA OO	0.4000	4	N.T
Total payroll of transits to full-quarter status for Fe-	WFA_A2A00	04028	4	N
male and age 14-99 Total payroll of transits to full-quarter status for Fe-	WEA ADADD	04059	4	N
male and age 19-21	WFA_A2A02	04052	4	N
Total payroll of transits to full-quarter status for Fe-	WFA_A2A03	04064	4	N
male and age 22-24	WININD	04004	4	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A04	04076	4	N
male and age 25-34	VV 1712/12/10 1	01010	1	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A05	04088	4	N
male and age 35-44	., 1111111100	0.1000	1	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A06	04100	4	N
male and age 45-54		0	_	= :
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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK				
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total payroll of transits to full-quarter status for Fe-	WFA_A2A07	04112	size 4	N
male and age 55-64	***************************************	01112	-	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A08	04124	4	N
male and age 65-99				
Total payroll of transits to full-quarter status for Male	WFA_A0A01	04032	4	N
and Female and age 14-				
Total payroll of transits to full-quarter status for Male	WFA_A0A00	04020	4	N
and Female and age 14-	WEA ADADO	04044	4	N
Total payroll of transits to full-quarter status for Male and Female and age 19-	WFA_A0A02	04044	4	N
Total payroll of transits to full-quarter status for Male	WFA_A0A03	04056	4	N
and Female and age 22-	VV17127107100	04000	-	11
Total payroll of transits to full-quarter status for Male	WFA_A0A04	04068	4	N
and Female and age 25-	,,	0 -0 0 0		
Total payroll of transits to full-quarter status for Male	WFA_A0A05	04080	4	N
and Female and age 35-				
Total payroll of transits to full-quarter status for Male	WFA_A0A06	04092	4	N
and Female and age 45-				
Total payroll of transits to full-quarter status for Male	WFA_A0A07	04104	4	N
and Female and age 55-				
Total payroll of transits to full-quarter status for Male	WFA_A0A08	04116	4	N
and Female and age 65-	MUDA A1A01	0.409.6	4	NT
Total payroll of transits to full-quarter status for Male	WFA_A1A01	04036	4	N
and age 14-18 Total payroll of transits to full-quarter status for Male	WFA_A1A00	04024	4	N
and age 14-99	WFA_ATAUU	04024	4	11
Total payroll of transits to full-quarter status for Male	WFA_A1A02	04048	4	N
and age 19-21	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01010	-	
Total payroll of transits to full-quarter status for Male	WFA_A1A03	04060	4	N
and age 22-24				
Total payroll of transits to full-quarter status for Male	WFA_A1A04	04072	4	N
and age $25-34$				
Total payroll of transits to full-quarter status for Male	WFA_A1A05	04084	4	N
and age 35-44	******	0.4000		
Total payroll of transits to full-quarter status for Male	WFA_A1A06	04096	4	N
and age 45-54	MATERIA A 1 A O.7	0.4100	4	N
Total payroll of transits to full-quarter status for Male and age 55-64	WFA_A1A07	04108	4	N
Total payroll of transits to full-quarter status for Male	WFA_A1A08	04120	4	N
and age 65-99	W171_7111100	04120	4	11
Total periods of non-employment for accessions for Fe-	NA_A2A01	04256	4	N
male and age 14-18		0 -200	_	
Total periods of non-employment for accessions for Fe-	NA_A2A00	04244	4	N
male and age 14-99				
Total periods of non-employment for accessions for Fe-	NA_A2A02	04268	4	N
male and age 19-21				
Total periods of non-employment for accessions for Fe-	NA_A2A03	04280	4	N
male and age 22-24	NIA ACACA	0.1005		
Total periods of non-employment for accessions for Fe-	NA_A2A04	04292	4	N
male and age 25-34				

LEHD-OVERVIEW-S2004 $Page\ 220$

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Eight cons		· - /	T2: -1.1	Date
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total periods of non-employment for accessions for Fe-	NA_A2A05	04304	4	N
male and age 35-44		0 -00 -		
Total periods of non-employment for accessions for Fe-	NA_A2A06	04316	4	N
male and age 45-54				
Total periods of non-employment for accessions for Fe-	NA_A2A07	04328	4	N
male and age 55-64				
Total periods of non-employment for accessions for Fe-	NA_A2A08	04340	4	N
male and age 65-99				
Total periods of non-employment for accessions for	NA_A0A01	04248	4	N
Male and Female and age 14-18				
Total periods of non-employment for accessions for	NA_A0A00	04236	4	N
Male and Female and age 14-99				
Total periods of non-employment for accessions for	NA_A0A02	04260	4	N
Male and Female and age 19-21				
Total periods of non-employment for accessions for	NA_A0A03	04272	4	N
Male and Female and age 22-24				
Total periods of non-employment for accessions for	NA_A0A04	04284	4	N
Male and Female and age 25-34				
Total periods of non-employment for accessions for	NA_A0A05	04296	4	N
Male and Female and age 35-44				
Total periods of non-employment for accessions for	NA_A0A06	04308	4	N
Male and Female and age 45-54	371 1010			
Total periods of non-employment for accessions for	NA_A0A07	04320	4	N
Male and Female and age 55-64	374 40400	0.4000	i	3.7
Total periods of non-employment for accessions for	NA_A0A08	04332	4	N
Male and Female and age 65-99	NIA A1A01	0.4050	4	N
Total periods of non-employment for accessions for	NA_A1A01	04252	4	N
Male and age 14-18 Total periods of non-employment for accessions for	NA_A1A00	04240	4	N
Male and age 14-99	NA_ATA00	04240	4	11
Total periods of non-employment for accessions for	NA_A1A02	04264	4	N
Male and age 19-21	111111102	04204	4	11
Total periods of non-employment for accessions for	NA_A1A03	04276	4	N
Male and age 22-24	111111100	04210	1	11
Total periods of non-employment for accessions for	NA_A1A04	04288	4	N
Male and age 25-34	1112111101	01200	-	
Total periods of non-employment for accessions for	NA_A1A05	04300	4	N
Male and age 35-44		0 2000		
Total periods of non-employment for accessions for	NA_A1A06	04312	4	N
Male and age 45-54				
Total periods of non-employment for accessions for	NA_A1A07	04324	4	N
Male and age 55-64				
Total periods of non-employment for accessions for	NA_A1A08	04336	4	N
Male and age 65-99				
Total periods of non-employment for new hires (last	NH_A2A01	04364	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A2A00	04352	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A2A02	04376	4	N
four quarters) for Female an				

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK				
Field name	Data dictionary reference name	Starting position	Field size	Data
Total periods of non-employment for new hires (last	NH_A2A03	04388	size 4	type
four quarters) for Female an	NII_AZAUS	04300	4	11
Total periods of non-employment for new hires (last	NH_A2A04	04400	4	N
four quarters) for Female an	111111111111111	04400	-	11
Total periods of non-employment for new hires (last	NH_A2A05	04412	4	N
four quarters) for Female an	11111111100	01112		11
Total periods of non-employment for new hires (last	NH_A2A06	04424	4	N
four quarters) for Female an	1111111111100	01121	-	
Total periods of non-employment for new hires (last	NH_A2A07	04436	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A2A08	04448	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A0A01	04356	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A00	04344	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NHA0A02	04368	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A03	04380	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A04	04392	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A05	04404	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A06	04416	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A07	04428	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A08	04440	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A01	04360	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A00	04348	4	N
four quarters) for Male and	2777 4 4 4 0 0	0.40=0		
Total periods of non-employment for new hires (last	NH_A1A02	04372	4	N
four quarters) for Male and		0.400.4		
Total periods of non-employment for new hires (last	NH_A1A03	04384	4	N
four quarters) for Male and	NIII	0.400.0		3.7
Total periods of non-employment for new hires (last	NH_A1A04	04396	4	N
four quarters) for Male and	NITE A 1 A OF	0.4.400	4	N.T.
Total periods of non-employment for new hires (last	NHA1A05	04408	4	N
four quarters) for Male and	NIII A 1 A O.C	04490	4	NT
Total periods of non-employment for new hires (last four quarters) for Male and	NH_A1A06	04420	4	N
Total periods of non-employment for new hires (last	NH A1A07	04422	4	N
four quarters) for Male and	NH_A1A07	04432	4	N
Total periods of non-employment for new hires (last	NH_A1A08	04444	4	N
four quarters) for Male and	1111111100	04444	4	11
Total periods of non-employment for recalls (last four	NR_A2A01	04472	4	N
quarters) for Female and	1110-1121101	01112	T	Τ.1
quarton) for Formula and				

Page 222

LEHD-OVERVIEW-S2004

Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary reference name	Starting position	Field size	Data type
Total periods of non-employment for recalls (last four	NR_A2A00	04460	4	N
quarters) for Female and	1110_1121100	01100	-	-
Total periods of non-employment for recalls (last four	NR_A2A02	04484	4	N
quarters) for Female and		0 - 20 -		
Total periods of non-employment for recalls (last four	NR_A2A03	04496	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A04	04508	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A05	04520	4	1
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A06	04532	4	1
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A07	04544	4	1
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A08	04556	4	1
quarters) for Female and				
Total periods of non-employment for recalls (last four	$NR_{-}A0A01$	04464	4	1
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A00	04452	4	Ι
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A02	04476	4	I
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A03	04488	4	I
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A04	04500	4	I
quarters) for Male and Fe	375 40405	0.171.0		_
Total periods of non-employment for recalls (last four	NR_A0A05	04512	4	Ι
quarters) for Male and Fe	ND AGAGG	0.450.4		
Total periods of non-employment for recalls (last four	NR_A0A06	04524	4	1
quarters) for Male and Fe	NID AGAGE	0.4500	4	•
Total periods of non-employment for recalls (last four	NR_A0A07	04536	4	ľ
quarters) for Male and Fe	NID AGAGG	0.45.40	4	3
Total periods of non-employment for recalls (last four	NR_A0A08	04548	4	ľ
quarters) for Male and Fe	ND A1A01	0.4.4.6.9	4	1
Total periods of non-employment for recalls (last four	NR_A1A01	04468	4	1
quarters) for Male and ag Total periods of non-employment for recalls (last four	NR_A1A00	04456	4	1
quarters) for Male and ag	NR_ATA00	04450	4	1
quarters) for Male and ag Total periods of non-employment for recalls (last four	NR_A1A02	04480	4	I
quarters) for Male and ag	NILATAUZ	04460	4	1
Total periods of non-employment for recalls (last four	NR_A1A03	04492	4	I
quarters) for Male and ag	1116_2111100	04432	-	_
Total periods of non-employment for recalls (last four	NR_A1A04	04504	4	I
quarters) for Male and ag	111021111101	01001	-	-
Total periods of non-employment for recalls (last four	NR_A1A05	04516	4	I
quarters) for Male and ag		31310	•	_
Total periods of non-employment for recalls (last four	NR_A1A06	04528	4	I
quarters) for Male and ag		3 10 2 0	-	_
Total periods of non-employment for recalls (last four	NR_A1A07	04540	4	1
quarters) for Male and ag		0 -0 10	-	-

Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK			` -	
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total periods of non-employment for recalls (last four	NR_A1A08	04552	4	N
quarters) for Male and ag				
Total periods of non-employment for separations for	NS_A2A01	05012	4	N
Female and age 14-18				
Total periods of non-employment for separations for	NS_A2A00	05000	4	N
Female and age 14-99				
Total periods of non-employment for separations for	NS_A2A02	05024	4	N
Female and age 19-21	770 40400			
Total periods of non-employment for separations for	NS_A2A03	05036	4	N
Female and age 22-24	NG AGAGA	05040	4	N.T.
Total periods of non-employment for separations for	NS_A2A04	05048	4	N
Female and age 25-34	NC ADAOE	05060	4	N
Total periods of non-employment for separations for Female and age 35-44	NS_A2A05	05060	4	IN
Total periods of non-employment for separations for	NS_A2A06	05072	4	N
Female and age 45-54	NS_AZA00	03072	4	11
Total periods of non-employment for separations for	NS_A2A07	05084	4	N
Female and age 55-64	110-1121101	40004	-	11
Total periods of non-employment for separations for	NS_A2A08	05096	4	N
Female and age 65-99		00000	_	
Total periods of non-employment for separations for	NS_A0A01	05004	4	N
Male and Female and age 14-1				
Total periods of non-employment for separations for	NS_A0A00	04992	4	N
Male and Female and age 14-9				
Total periods of non-employment for separations for	NS_A0A02	05016	4	N
Male and Female and age 19-2				
Total periods of non-employment for separations for	NS_A0A03	05028	4	N
Male and Female and age 22-2				
Total periods of non-employment for separations for	NS_A0A04	05040	4	N
Male and Female and age 25-3	770 10105			
Total periods of non-employment for separations for	NS_A0A05	05052	4	N
Male and Female and age 35-4	NIC AOAOG	05064	4	ът
Total periods of non-employment for separations for	NS_A0A06	05064	4	N
Male and Female and age 45-5	NC AOAO7	05076	4	N
Total periods of non-employment for separations for	NS_A0A07	09076	4	IN
Male and Female and age 55-6 Total periods of non-employment for separations for	NS_A0A08	05088	4	N
Male and Female and age 65-9	NS_AUAU0	03000	4	11
Total periods of non-employment for separations for	NS_A1A01	05008	4	N
Male and age 14-18	1102/11/101	03000	4	11
Total periods of non-employment for separations for	NS_A1A00	04996	4	N
Male and age 14-99	11021111100	01000	1	1,
Total periods of non-employment for separations for	NS_A1A02	05020	4	N
Male and age 19-21				
Total periods of non-employment for separations for	NS_A1A03	05032	4	N
Male and age 22-24				
Total periods of non-employment for separations for	NS_A1A04	05044	4	N
Male and age 25-34				
Total periods of non-employment for separations for	NS_A1A05	05056	4	N
Male and age 35-44				

 $Page\ 224$ $LEHD ext{-}OVERVIEW ext{-}S2004$ Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Total periods of non-employment for separations for	NS_A1A06	05068	4	N
Male and age 45-54		00000		
Total periods of non-employment for separations for	NS_A1A07	05080	4	N
Male and age 55-64				
Total periods of non-employment for separations for	NS_A1A08	05092	4	N
Male and age 65-99				
WIB code, wwwwww	LEG_WIB	07519	6	A/N
Weight such that weighted sum of B ₋ UI =	QWI_UNIT_WEIGHT	00000	8	Ň
$sum(month1_BLS)$				
Year YYYY	YEAR	07534	3	N
lnwb*lnwb for Female and age 14-18	$LNWB2_A2A01$	05660	4	N
lnwb*lnwb for Female and age 14-99	$LNWB2_A2A00$	05648	4	N
lnwb*lnwb for Female and age 19-21	$LNWB2_A2A02$	05672	4	N
lnwb*lnwb for Female and age 22-24	$LNWB2_A2A03$	05684	4	N
lnwb*lnwb for Female and age 25-34	$LNWB2_A2A04$	05696	4	N
lnwb*lnwb for Female and age 35-44	$LNWB2_A2A05$	05708	4	N
lnwb*lnwb for Female and age 45-54	$LNWB2_A2A06$	05720	4	N
lnwb*lnwb for Female and age 55-64	$LNWB2_A2A07$	05732	4	N
lnwb*lnwb for Female and age 65-99	$LNWB2_A2A08$	05744	4	N
lnwb*lnwb for Male and Female and age 14-18	$LNWB2_A0A01$	05652	4	N
lnwb*lnwb for Male and Female and age 14-99	$LNWB2_A0A00$	05640	4	N
lnwb*lnwb for Male and Female and age 19-21	$LNWB2_A0A02$	05664	4	N
lnwb*lnwb for Male and Female and age 22-24	$LNWB2_A0A03$	05676	4	N
lnwb*lnwb for Male and Female and age 25-34	$LNWB2_A0A04$	05688	4	N
lnwb*lnwb for Male and Female and age 35-44	$LNWB2_A0A05$	05700	4	N
lnwb*lnwb for Male and Female and age 45-54	$LNWB2_A0A06$	05712	4	N
lnwb*lnwb for Male and Female and age 55-64	$LNWB2_A0A07$	05724	4	N
lnwb*lnwb for Male and Female and age 65-99	$LNWB2_A0A08$	05736	4	N
lnwb*lnwb for Male and age 14-18	$LNWB2_A1A01$	05656	4	N
lnwb*lnwb for Male and age 14-99	$LNWB2_A1A00$	05644	4	N
lnwb*lnwb for Male and age 19-21	$LNWB2_A1A02$	05668	4	N
lnwb*lnwb for Male and age 22-24	$LNWB2_A1A03$	05680	4	N
lnwb*lnwb for Male and age 25-34	LNWB2_A1A04	05692	4	N
lnwb*lnwb for Male and age 35-44	LNWB2_A1A05	05704	4	N
lnwb*lnwb for Male and age 45-54	LNWB2_A1A06	05716	4	N
lnwb*lnwb for Male and age 55-64	LNWB2_A1A07	05728	4	N
lnwb*lnwb for Male and age 65-99	LNWB2_A1A08	05740	4	N
lnwb*lnwblg for Female and age 14-18	LNWB_LNWBLG_A2A01	05768	4	N
lnwb*lnwblg for Female and age 14-99	LNWB_LNWBLG_A2A00	05756	4	N
lnwb*lnwblg for Female and age 19-21	LNWB_LNWBLG_A2A02	05780	4	N
lnwb*lnwblg for Female and age 22-24	LNWB_LNWBLG_A2A03	05792	4	N
lnwb*lnwblg for Female and age 25-34	LNWB_LNWBLG_A2A04	05804	4	N
lnwb*lnwblg for Female and age 35-44	LNWB_LNWBLG_A2A05	05816	4	N
lnwb*lnwblg for Female and age 45-54	LNWB_LNWBLG_A2A06	05828	4	N
lnwb*lnwblg for Female and age 55-64	LNWB_LNWBLG_A2A07	05840	4	N
lnwb*lnwblg for Female and age 65-99	LNWB_LNWBLG_A2A08	05852	4	N
lnwb*lnwblg for Male and Female and age 14-18	LNWB_LNWBLG_A0A01	05760	4	N
lnwb*lnwblg for Male and Female and age 14-99	LNWB_LNWBLG_A0A00	05748	4	N
lnwb*lnwblg for Male and Female and age 19-21	LNWB_LNWBLG_A0A02	05772	4	N
lnwb*lnwblg for Male and Female and age 22-24	LNWB_LNWBLG_A0A03	05784	4	N

Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name			Field	<u> </u>
Field name	Data dictionary reference name	Starting position	size	Data type
lnwb*lnwblg for Male and Female and age 25-34	LNWB_LNWBLG_A0A04	05796	4	N
lnwb*lnwblg for Male and Female and age 35-44	LNWB_LNWBLG_A0A05	05808	4	N
lnwb*lnwblg for Male and Female and age 45-54	LNWB_LNWBLG_A0A06	05820	4	N
lnwb*lnwblg for Male and Female and age 55-64	LNWB_LNWBLG_A0A07	05832	4	N
lnwb*lnwblg for Male and Female and age 65-99	LNWB_LNWBLG_A0A08	05844	4	N
lnwb*lnwblg for Male and age 14-18	LNWB_LNWBLG_A1A01	05764	4	N
lnwb*lnwblg for Male and age 14-99	LNWB_LNWBLG_A1A00	05752	4	N
lnwb*lnwblg for Male and age 19-21	LNWB_LNWBLG_A1A02	05776	4	N
lnwb*lnwblg for Male and age 22-24	LNWB_LNWBLG_A1A03	05788	$\stackrel{1}{4}$	N
lnwb*lnwblg for Male and age 25-34	LNWB_LNWBLG_A1A04	05800	4	N
lnwb*lnwblg for Male and age 35-44	LNWB_LNWBLG_A1A05	05812	4	N
lnwb*lnwblg for Male and age 45-54	LNWB_LNWBLG_A1A06	05824	4	N
lnwb*lnwblg for Male and age 55-64	LNWB_LNWBLG_A1A07	05836	4	N
lnwb*lnwblg for Male and age 65-99	LNWB_LNWBLG_A1A08	05848	$\overline{4}$	N
lnwblg*lnwblg for Female and age 14-18	LNWBLG2_A2A01	05876	$\overline{4}$	N
lnwblg*lnwblg for Female and age 14-99	LNWBLG2_A2A00	05864	4	N
lnwblg*lnwblg for Female and age 19-21	LNWBLG2_A2A02	05888	4	N
lnwblg*lnwblg for Female and age 22-24	LNWBLG2_A2A03	05900	4	N
lnwblg*lnwblg for Female and age 25-34	LNWBLG2_A2A04	05912	4	N
lnwblg*lnwblg for Female and age 35-44	LNWBLG2_A2A05	05924	4	N
lnwblg*lnwblg for Female and age 45-54	LNWBLG2_A2A06	05936	4	N
lnwblg*lnwblg for Female and age 55-64	LNWBLG2_A2A07	05948	4	N
lnwblg*lnwblg for Female and age 65-99	LNWBLG2_A2A08	05960	4	N
lnwblg*lnwblg for Male and Female and age 14-18	LNWBLG2_A0A01	05868	4	N
lnwblg*lnwblg for Male and Female and age 14-99	LNWBLG2_A0A00	05856	4	N
lnwblg*lnwblg for Male and Female and age 19-21	LNWBLG2_A0A02	05880	4	N
lnwblg*lnwblg for Male and Female and age 22-24	LNWBLG2_A0A03	05892	4	N
lnwblg*lnwblg for Male and Female and age 25-34	LNWBLG2_A0A04	05904	$\overline{4}$	N
lnwblg*lnwblg for Male and Female and age 35-44	$LNWBLG2_A0A05$	05916	4	N
lnwblg*lnwblg for Male and Female and age 45-54	LNWBLG2_A0A06	05928	$\overline{4}$	N
lnwblg*lnwblg for Male and Female and age 55-64	LNWBLG2_A0A07	05940	4	N
lnwblg*lnwblg for Male and Female and age 65-99	LNWBLG2_A0A08	05952	4	N
lnwblg*lnwblg for Male and age 14-18	LNWBLG2_A1A01	05872	4	N
lnwblg*lnwblg for Male and age 14-99	LNWBLG2_A1A00	05860	4	N
lnwblg*lnwblg for Male and age 19-21	LNWBLG2_A1A02	05884	4	N
lnwblg*lnwblg for Male and age 22-24	LNWBLG2_A1A03	05896	4	N
lnwblg*lnwblg for Male and age 25-34	LNWBLG2_A1A04	05908	4	N
lnwblg*lnwblg for Male and age 35-44	LNWBLG2_A1A05	05920	4	N
lnwblg*lnwblg for Male and age 45-54	LNWBLG2_A1A06	05932	4	N
lnwblg*lnwblg for Male and age 55-64	LNWBLG2_A1A07	05944	4	N
lnwblg*lnwblg for Male and age 65-99	LNWBLG2_A1A08	05956	4	N
lnwe*lnwe for Female and age 14-18	$LNWE2_A2A01$	06200	4	N
lnwe*lnwe for Female and age 14-99	$LNWE2_A2A00$	06188	4	N
lnwe*lnwe for Female and age 19-21	$LNWE2_A2A02$	06212	4	N
lnwe*lnwe for Female and age 22-24	$LNWE2_A2A03$	06224	4	N
lnwe*lnwe for Female and age 25-34	$LNWE2_A2A04$	06236	4	N
lnwe*lnwe for Female and age 35-44	$LNWE2_A2A05$	06248	4	N
lnwe*lnwe for Female and age 45-54	$LNWE2_A2A06$	06260	4	N
lnwe*lnwe for Female and age 55-64	LNWE2_A2A07	06272	$\overline{4}$	N
lnwe*lnwe for Female and age 65-99	$LNWE2_A2A08$	06284	4	N
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Page 226 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERED WORKFORCE INDIC.			1	
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
lnwe*lnwe for Male and Female and age 14-18	LNWE2_A0A01	06192	4	N
lnwe*lnwe for Male and Female and age 14-99	$LNWE2_A0A00$	06180	4	N
lnwe*lnwe for Male and Female and age 19-21	$LNWE2_A0A02$	06204	4	N
lnwe*lnwe for Male and Female and age 22-24	$LNWE2_A0A03$	06216	4	N
lnwe*lnwe for Male and Female and age 25-34	$LNWE2_A0A04$	06228	4	N
lnwe*lnwe for Male and Female and age 35-44	$LNWE2_A0A05$	06240	4	N
lnwe*lnwe for Male and Female and age 45-54	$LNWE2_A0A06$	06252	4	N
lnwe*lnwe for Male and Female and age 55-64	$LNWE2_A0A07$	06264	4	N
lnwe*lnwe for Male and Female and age 65-99	$LNWE2_A0A08$	06276	4	N
lnwe*lnwe for Male and age 14-18	$LNWE2_A1A01$	06196	4	N
lnwe*lnwe for Male and age 14-99	$LNWE2_A1A00$	06184	4	N
lnwe*lnwe for Male and age 19-21	$LNWE2_A1A02$	06208	4	N
lnwe*lnwe for Male and age 22-24	LNWE2_A1A03	06220	4	N
lnwe*lnwe for Male and age 25-34	$LNWE2_A1A04$	06232	4	N
lnwe*lnwe for Male and age 35-44	LNWE2_A1A05	06244	4	N
lnwe*lnwe for Male and age 45-54	LNWE2_A1A06	06256	4	N
lnwe*lnwe for Male and age 55-64	$LNWE2_A1A07$	06268	4	N
lnwe*lnwe for Male and age 65-99	LNWE2_A1A08	06280	4	N
lnwe*lnweld for Female and age 14-18	LNWE_LNWELD_A2A01	06308	4	N
lnwe*lnweld for Female and age 14-99	LNWE_LNWELD_A2A00	06296	4	N
lnwe*lnweld for Female and age 19-21	LNWE_LNWELD_A2A02	06320	4	N
lnwe*lnweld for Female and age 22-24	LNWE_LNWELD_A2A03	06332	4	N
lnwe*lnweld for Female and age 25-34	LNWE_LNWELD_A2A04	06344	4	N
lnwe*lnweld for Female and age 35-44	LNWE_LNWELD_A2A05	06356	4	N
lnwe*lnweld for Female and age 45-54	LNWE_LNWELD_A2A06	06368	4	N
lnwe*lnweld for Female and age 55-64	LNWE_LNWELD_A2A07	06380	4	N
lnwe*lnweld for Female and age 65-99	LNWE_LNWELD_A2A08	06392	4	N
lnwe*lnweld for Male and Female and age 14-18	LNWE_LNWELD_A0A01	06300	4	N
lnwe*lnweld for Male and Female and age 14-19	LNWE_LNWELD_A0A00	06288	4	N
lnwe*lnweld for Male and Female and age 19-21	LNWE_LNWELD_A0A02	06312	4	N
lnwe*lnweld for Male and Female and age 22-24	LNWE_LNWELD_A0A02	06324	4	N
lnwe*lnweld for Male and Female and age 25-34	LNWE_LNWELD_A0A04	06336	4	N
lnwe*lnweld for Male and Female and age 35-44	LNWE_LNWELD_A0A05	06348	4	N
lnwe*lnweld for Male and Female and age 45-54	LNWE_LNWELD_A0A06	06360	4	N
lnwe*lnweld for Male and Female and age 55-64	LNWE_LNWELD_A0A07	06372	4	N
lnwe*lnweld for Male and Female and age 65-99	LNWE_LNWELD_A0A08	06384	4	N
lnwe*lnweld for Male and age 14-18	LNWE_LNWELD_A1A01	06304	4	N
lnwe*lnweld for Male and age 14-18		06304 06292		N
lnwe*lnweld for Male and age 19-21	LNWE_LNWELD_A1A00		4	
e e e e e e e e e e e e e e e e e e e	LNWE_LNWELD_A1A02 LNWE_LNWELD_A1A03	06316	4	N
lnwe*lnweld for Male and age 22-24		06328	4	N
lnwe*lnweld for Male and age 25-34	LNWE_LNWELD_A1A04	06340	4	N
lnwe*lnweld for Male and age 35-44	LNWE_LNWELD_A1A05	06352	4	N
lnwe*lnweld for Male and age 45-54	LNWE_LNWELD_A1A06	06364	4	N
lnwe*lnweld for Male and age 55-64	LNWE_LNWELD_A1A07	06376	4	N
lnwe*lnweld for Male and age 65-99	LNWELD A A A A A A	06388	4	N
lnweld*lnweld for Female and age 14-18	LNWELD2_A2A01	06416	4	N
lnweld*lnweld for Female and age 14-99	LNWELD2_A2A00	06404	4	N
lnweld*lnweld for Female and age 19-21	LNWELD2_A2A02	06428	4	N
lnweld*lnweld for Female and age 22-24	LNWELD2_A2A03	06440	4	N
lnweld*lnweld for Female and age 25-34	$LNWELD2_A2A04$	06452	4	N

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
lnweld*lnweld for Female and age 35-44	LNWELD2_A2A05	06464	4	N
lnweld*lnweld for Female and age 45-54	LNWELD2_A2A06	06476	4	N
lnweld*lnweld for Female and age 55-64	LNWELD2_A2A07	06488	4	N
lnweld*lnweld for Female and age 65-99	LNWELD2_A2A08	06500	4	N
lnweld*lnweld for Male and Female and age 14-18	LNWELD2_A0A01	06408	4	N
lnweld*lnweld for Male and Female and age 14-99	LNWELD2_A0A00	06396	4	N
lnweld*lnweld for Male and Female and age 19-21	LNWELD2_A0A02	06420	4	N
lnweld*lnweld for Male and Female and age 22-24	LNWELD2_A0A03	06432	4	N
lnweld*lnweld for Male and Female and age 25-34	LNWELD2_A0A04	06444	4	N
lnweld*lnweld for Male and Female and age 25 51	LNWELD2_A0A05	06456	4	N
lnweld*lnweld for Male and Female and age 45-54	LNWELD2_A0A06	06468	4	N
lnweld*lnweld for Male and Female and age 55-64	LNWELD2_A0A07	06480	4	N
lnweld*lnweld for Male and Female and age 65-99	LNWELD2_A0A08	06492	4	N
lnweld*lnweld for Male and age 14-18	LNWELD2_A1A01	06412	4	N
lnweld*lnweld for Male and age 14-16	LNWELD2_A1A00	06400	4	N
lnweld*lnweld for Male and age 19-21	LNWELD2_A1A02	06424	4	N
lnweld*lnweld for Male and age 22-24	LNWELD2_A1A03	06436	4	N
lnweld*lnweld for Male and age 25-34	LNWELD2_A1A03	06448	4	N
lnweld*lnweld for Male and age 25-54	LNWELD2_A1A04 LNWELD2_A1A05	06460	4	N
lnweld*lnweld for Male and age 45-54	LNWELD2_A1A06	06472	4	N
lnweld*lnweld for Male and age 55-64	LNWELD2_A1A07	06484	4	N
lnweld*lnweld for Male and age 65-99	LNWELD2_A1A07	06496	4	N
lnwf*lnwf for Female and age 14-18	LNWF2_A2A01	06848	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 14-18	$LNWF2_A2A01$ $LNWF2_A2A00$	06836	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 14-99	$LNWF2_A2A00$ $LNWF2_A2A02$	06860	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 19-21	$LNWF2_A2A02$ $LNWF2_A2A03$	06872	$\frac{4}{4}$	N N
lnwf*lnwf for Female and age 25-34	$LNWF2_A2A03$ $LNWF2_A2A04$	06884	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 25-54	$LNWF2_A2A04$ $LNWF2_A2A05$	06896	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 45-54	$LNWF2_A2A05$ $LNWF2_A2A06$	06908	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 43-54	$LNWF2_A2A00$ $LNWF2_A2A07$	06920	$\frac{4}{4}$	N
lnwf*lnwf for Female and age 65-99	LNWF2_A2A07 LNWF2_A2A08	06932		N
			4	N N
lnwf*lnwf for Male and Female and age 14-18	LNWF2_A0A01	06840	4	
lnwf*lnwf for Male and Female and age 14-99	LNWF2_A0A00	06828	4	N N
lnwf*lnwf for Male and Female and age 19-21	LNWF2_A0A02	$06852 \\ 06864$	$\frac{4}{4}$	N N
lnwf*lnwf for Male and Female and age 22-24	$LNWF2_A0A03$ $LNWF2_A0A04$			
lnwf*lnwf for Male and Female and age 25-34		06876	4	N
lnwf*lnwf for Male and Female and age 35-44	LNWF2_A0A05	06888	4	N
lnwf*lnwf for Male and Female and age 45-54	LNWF2_A0A06	06900	4	N
lnwf*lnwf for Male and Female and age 55-64	LNWF2_A0A07	06912	4	N
lnwf*lnwf for Male and Female and age 65-99	LNWF2_A0A08	06924	4	N
lnwf*lnwf for Male and age 14-18	LNWF2_A1A01	06844	4	N
lnwf*lnwf for Male and age 14-99	LNWF2_A1A00	06832	4	N
lnwf*lnwf for Male and age 19-21	LNWF2_A1A02	06856	4	N
lnwf*lnwf for Male and age 22-24	LNWF2_A1A03	06868	4	N
lnwf*lnwf for Male and age 25-34	LNWF2_A1A04	06880	4	N
lnwf*lnwf for Male and age 35-44	LNWF2_A1A05	06892	4	N
lnwf*lnwf for Male and age 45-54	LNWF2_A1A06	06904	4	N
lnwf*lnwf for Male and age 55-64	LNWF2_A1A07	06916	4	N
lnwf*lnwf for Male and age 65-99	LNWF2_A1A08	06928	4	N
lnwf*lnwfld for Female and age 14-18	LNWF_LNWFLD_A2A01	07172	4	N

Page 228 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

E:-11	1	- /	T2: -1.1	Data
Field name	Data dictionary reference name	Starting position	Field size	Data type
lowf*lowfd for Female and age 14.00	LNWF_LNWFLD_A2A00	07160	4	N
lnwf*lnwfld for Female and age 14-99				
lnwf*lnwfld for Female and age 19-21	LNWF_LNWFLD_A2A02	07184	4	N
lnwf*lnwfld for Female and age 22-24	LNWF_LNWFLD_A2A03	07196	4	N
lnwf*lnwfld for Female and age 25-34	LNWF_LNWFLD_A2A04	07208	4	N
lnwf*lnwfld for Female and age 35-44	LNWF_LNWFLD_A2A05	07220	4	N
lnwf*lnwfld for Female and age 45-54	LNWF_LNWFLD_A2A06	07232	4	N
lnwf*lnwfld for Female and age 55-64	LNWF_LNWFLD_A2A07	07244	4	N
lnwf*lnwfld for Female and age 65-99	LNWF_LNWFLD_A2A08	07256	4	N
lnwf*lnwfld for Male and Female and age 14-18	LNWF_LNWFLD_A0A01	07164	4	N
lnwf*lnwfld for Male and Female and age 14-99	LNWF_LNWFLD_A0A00	07152	4	\mathbf{N}
lnwf*lnwfld for Male and Female and age 19-21	LNWF_LNWFLD_A0A02	07176	4	N
lnwf*lnwfld for Male and Female and age 22-24	LNWF_LNWFLD_A0A03	07188	4	N
lnwf*lnwfld for Male and Female and age 25-34	LNWF_LNWFLD_A0A04	07200	4	N
lnwf*lnwfld for Male and Female and age 35-44	LNWF_LNWFLD_A0A05	07212	4	\mathbf{N}
lnwf*lnwfld for Male and Female and age 45-54	LNWF_LNWFLD_A0A06	07224	4	N
lnwf*lnwfld for Male and Female and age 55-64	LNWF_LNWFLD_A0A07	07236	$\overline{4}$	N
lnwf*lnwfld for Male and Female and age 65-99	LNWF_LNWFLD_A0A08	07248	4	N
lnwf*lnwfld for Male and age 14-18	LNWF_LNWFLD_A1A01	07168	4	N
lnwf*lnwfld for Male and age 14-19	LNWF_LNWFLD_A1A00	07156	4	N
lnwf*lnwfld for Male and age 19-21	LNWF_LNWFLD_A1A00	07180	4	N
		07180 07192		
lnwf*lnwfld for Male and age 22-24	LNWF_LNWFLD_A1A03		4	N
lnwf*lnwfld for Male and age 25-34	LNWF_LNWFLD_A1A04	07204	4	N
lnwf*lnwfld for Male and age 35-44	LNWF_LNWFLD_A1A05	07216	4	N
lnwf*lnwfld for Male and age 45-54	LNWF_LNWFLD_A1A06	07228	4	N
lnwf*lnwfld for Male and age 55-64	LNWF_LNWFLD_A1A07	07240	4	N
lnwf*lnwfld for Male and age 65-99	LNWF_LNWFLD_A1A08	07252	4	N
lnwf*lnwflg for Female and age 14-18	LNWF_LNWFLG_A2A01	07280	4	N
lnwf*lnwflg for Female and age 14-99	LNWF_LNWFLG_A2A00	07268	4	N
lnwf*lnwflg for Female and age 19-21	LNWF_LNWFLG_A2A02	07292	4	N
lnwf*lnwflg for Female and age 22-24	LNWF_LNWFLG_A2A03	07304	4	\mathbf{N}
lnwf*lnwflg for Female and age 25-34	LNWF_LNWFLG_A2A04	07316	4	N
lnwf*lnwflg for Female and age 35-44	LNWF_LNWFLG_A2A05	07328	4	N
lnwf*lnwflg for Female and age 45-54	LNWF_LNWFLG_A2A06	07340	4	\mathbf{N}
lnwf*lnwflg for Female and age 55-64	LNWF_LNWFLG_A2A07	07352	4	\mathbf{N}
lnwf*lnwflg for Female and age 65-99	LNWF_LNWFLG_A2A08	07364	4	N
lnwf*lnwflg for Male and Female and age 14-18	LNWF_LNWFLG_A0A01	07272	4	N
lnwf*lnwflg for Male and Female and age 14-99	LNWF_LNWFLG_A0A00	07260	$\overline{4}$	N
lnwf*lnwflg for Male and Female and age 19-21	LNWF_LNWFLG_A0A02	07284	4	N
lnwf*lnwflg for Male and Female and age 22-24	LNWF_LNWFLG_A0A03	07296	4	N
lnwf*lnwflg for Male and Female and age 25-34	LNWF_LNWFLG_A0A04	07308	4	N
lnwf*lnwflg for Male and Female and age 25-34	LNWF_LNWFLG_A0A05	07300	4	N
-				
lnwf*lnwflg for Male and Female and age 45-54	LNWF_LNWFLG_A0A06	07332	4	N
lnwf*lnwflg for Male and Female and age 55-64	LNWF_LNWFLG_A0A07	07344	4	N
lnwf*lnwflg for Male and Female and age 65-99	LNWF_LNWFLG_A0A08	07356	4	N
lnwf*lnwflg for Male and age 14-18	LNWF_LNWFLG_A1A01	07276	4	N
lnwf*lnwflg for Male and age 14-99	LNWF_LNWFLG_A1A00	07264	4	N
lnwf*lnwflg for Male and age 19-21	LNWF_LNWFLG_A1A02	07288	4	N
lnwf*lnwflg for Male and age 22-24	LNWF_LNWFLG_A1A03	07300	4	N
lnwf*lnwflg for Male and age 25-34	LNWF_LNWFLG_A1A04	07312	4	N
lnwf*lnwflg for Male and age 35-44	LNWF_LNWFLG_A1A05	07324	4	N

Revision: 219

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name			Field	Data
rieid name	Data dictionary reference name	Starting position	size	
lnwf*lnwflg for Male and age 45-54	LNWF_LNWFLG_A1A06	07336	size 4	type
lnwf*lnwflg for Male and age 55-64	LNWF_LNWFLG_A1A07	07348	4	N
lnwf*lnwflg for Male and age 65-99	LNWF_LNWFLG_A1A08	07340	4	N
lnwfld*lnwfld for Female and age 14-18	LNWFLD2_A2A01	06956	4	N
lnwfld*lnwfld for Female and age 14-99	LNWFLD2_A2A01 LNWFLD2_A2A00	06944	4	N
lnwfld*lnwfld for Female and age 19-21	$LNWFLD2_A2A00$ $LNWFLD2_A2A02$	06968	4	N
lnwfld*lnwfld for Female and age 22-24	LNWFLD2_A2A02 LNWFLD2_A2A03	06980	4	N
lnwfld*lnwfld for Female and age 25-34	LNWFLD2_A2A03 LNWFLD2_A2A04	06992	4	N
lnwfld*lnwfld for Female and age 35-44	LNWFLD2_A2A04 LNWFLD2_A2A05	07004	4	N
lnwfld*lnwfld for Female and age 45-54	LNWFLD2_A2A06	07004	4	N
lnwfld*lnwfld for Female and age 55-64	LNWFLD2_A2A07	07010	4	N
lnwfld*lnwfld for Female and age 65-99	LNWFLD2_A2A07 LNWFLD2_A2A08	07040	4	N
lnwfld*lnwfld for Male and Female and age 14-18	LNWFLD2_A2A08	06948	4	N
lnwfld*lnwfld for Male and Female and age 14-18	LNWFLD2_A0A01 LNWFLD2_A0A00	06936	4	N
lnwfld*lnwfld for Male and Female and age 14-99	LNWFLD2_A0A00 LNWFLD2_A0A02	06960	4	N
lnwfld*lnwfld for Male and Female and age 19-21	LNWFLD2_A0A02	06972	4	N
	LNWFLD2_A0A03	06984		N N
lnwfld*lnwfld for Male and Female and age 25-34 lnwfld*lnwfld for Male and Female and age 35-44	LNWFLD2_A0A04 LNWFLD2_A0A05	06996	$\frac{4}{4}$	N N
lnwfld*lnwfld for Male and Female and age 45-54	LNWFLD2_A0A05	07008		N N
<u> </u>			4	N N
lnwfld*lnwfld for Male and Female and age 55-64	LNWFLD2_A0A07	07020	4	
lnwfld*lnwfld for Male and Female and age 65-99	LNWFLD2_A0A08	07032	4	N
lnwfld*lnwfld for Male and age 14-18	LNWFLD2_A1A01	06952	4	N
lnwfld*lnwfld for Male and age 14-99	LNWFLD2_A1A00	06940	4	N
lnwfld*lnwfld for Male and age 19-21	LNWFLD2_A1A02	06964	4	N
lnwfld*lnwfld for Male and age 22-24	LNWFLD2_A1A03	06976	4	N
lnwfld*lnwfld for Male and age 25-34	LNWFLD2_A1A04	06988	4	N
lnwfld*lnwfld for Male and age 35-44	LNWFLD2_A1A05	07000	4	N
lnwfld*lnwfld for Male and age 45-54	LNWFLD2_A1A06	07012	4	N
lnwfld*lnwfld for Male and age 55-64	LNWFLD2_A1A07	07024	4	N
lnwfld*lnwfld for Male and age 65-99	LNWFLD2_A1A08	07036	4	N
lnwfld*lnwflg for Female and age 14-18	LNWFLD_LNWFLG_A2A01	07388	4	N
lnwfld*lnwflg for Female and age 14-99	LNWFLD_LNWFLG_A2A00	07376	4	N
lnwfld*lnwflg for Female and age 19-21	LNWFLD_LNWFLG_A2A02	07400	4	N
lnwfld*lnwflg for Female and age 22-24	LNWFLD_LNWFLG_A2A03	07412	4	N
lnwfld*lnwflg for Female and age 25-34	LNWFLD_LNWFLG_A2A04	07424	4	N
lnwfld*lnwflg for Female and age 35-44	LNWFLD_LNWFLG_A2A05	07436	4	N
lnwfld*lnwflg for Female and age 45-54	LNWFLD_LNWFLG_A2A06	07448	4	N
lnwfld*lnwflg for Female and age 55-64	LNWFLD_LNWFLG_A2A07	07460	4	N
lnwfld*lnwflg for Female and age 65-99	LNWFLD_LNWFLG_A2A08	07472	4	N
lnwfld*lnwflg for Male and Female and age 14-18	LNWFLD_LNWFLG_A0A01	07380	4	N
lnwfld*lnwflg for Male and Female and age 14-99	LNWFLD_LNWFLG_A0A00	07368	4	N
lnwfld*lnwflg for Male and Female and age 19-21	LNWFLD_LNWFLG_A0A02	07392	4	N
lnwfld*lnwflg for Male and Female and age 22-24	LNWFLD_LNWFLG_A0A03	07404	4	N
lnwfld*lnwflg for Male and Female and age 25-34	LNWFLD_LNWFLG_A0A04	07416	4	N
lnwfld*lnwflg for Male and Female and age 35-44	LNWFLD_LNWFLG_A0A05	07428	4	N
lnwfld*lnwflg for Male and Female and age 45-54	LNWFLD_LNWFLG_A0A06	07440	4	N
lnwfld*lnwflg for Male and Female and age 55-64	LNWFLD_LNWFLG_A0A07	07452	4	N
lnwfld*lnwflg for Male and Female and age 65-99	LNWFLD_LNWFLG_A0A08	07464	4	N
lnwfld*lnwflg for Male and age 14-18	LNWFLD_LNWFLG_A1A01	07384	4	N
lnwfld*lnwflg for Male and age 14-99	LNWFLD_LNWFLG_A1A00	07372	4	N

Page 230 LEHD-OVERVIEW-S2004

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
lnwfld*lnwflg for Male and age 19-21	LNWFLD_LNWFLG_A1A02	07396	4	N
lnwfld*lnwflg for Male and age 22-24	LNWFLD_LNWFLG_A1A03	07408	4	N
lnwfld*lnwflg for Male and age 25-34	LNWFLD_LNWFLG_A1A04	07420	4	N
lnwfld*lnwflg for Male and age 35-44	LNWFLD_LNWFLG_A1A05	07432	4	N
lnwfld*lnwflg for Male and age 45-54	LNWFLD_LNWFLG_A1A06	07444	4	N
lnwfld*lnwflg for Male and age 55-64	LNWFLD_LNWFLG_A1A07	07456	4	\mathbf{N}
lnwfld*lnwflg for Male and age 65-99	LNWFLD_LNWFLG_A1A08	07468	4	N
lnwflg*lnwflg for Female and age 14-18	$LNWFLG2_A2A01$	07064	4	N
lnwflg*lnwflg for Female and age 14-99	$LNWFLG2_A2A00$	07052	4	\mathbf{N}
lnwflg*lnwflg for Female and age 19-21	$LNWFLG2_A2A02$	07076	4	\mathbf{N}
lnwflg*lnwflg for Female and age 22-24	$LNWFLG2_A2A03$	07088	4	\mathbf{N}
lnwflg*lnwflg for Female and age 25-34	$LNWFLG2_A2A04$	07100	4	\mathbf{N}
lnwflg*lnwflg for Female and age 35-44	$LNWFLG2_A2A05$	07112	4	\mathbf{N}
lnwflg*lnwflg for Female and age 45-54	$LNWFLG2_A2A06$	07124	4	\mathbf{N}
lnwflg*lnwflg for Female and age 55-64	$LNWFLG2_A2A07$	07136	4	\mathbf{N}
lnwflg*lnwflg for Female and age 65-99	$LNWFLG2_A2A08$	07148	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 14-18	$LNWFLG2_A0A01$	07056	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 14-99	$LNWFLG2_A0A00$	07044	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 19-21	$LNWFLG2_A0A02$	07068	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 22-24	$LNWFLG2_A0A03$	07080	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 25-34	$LNWFLG2_A0A04$	07092	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 35-44	$LNWFLG2_A0A05$	07104	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 45-54	$LNWFLG2_A0A06$	07116	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 55-64	$LNWFLG2_A0A07$	07128	4	\mathbf{N}
lnwflg*lnwflg for Male and Female and age 65-99	$LNWFLG2_A0A08$	07140	4	\mathbf{N}
lnwflg*lnwflg for Male and age 14-18	$LNWFLG2_A1A01$	07060	4	\mathbf{N}
lnwflg*lnwflg for Male and age 14-99	$LNWFLG2_A1A00$	07048	4	\mathbf{N}
lnwflg*lnwflg for Male and age 19-21	$LNWFLG2_A1A02$	07072	4	\mathbf{N}
lnwflg*lnwflg for Male and age 22-24	$LNWFLG2_A1A03$	07084	4	N
lnwflg*lnwflg for Male and age 25-34	$LNWFLG2_A1A04$	07096	4	N
lnwflg*lnwflg for Male and age 35-44	$LNWFLG2_A1A05$	07108	4	N
lnwflg*lnwflg for Male and age 45-54	$LNWFLG2_A1A06$	07120	4	N
lnwflg*lnwflg for Male and age 55-64	$LNWFLG2_A1A07$	07132	4	N
lnwflg*lnwflg for Male and age 65-99	$LNWFLG2_A1A08$	07144	4	\mathbf{N}
$qwi_wcf^*qwi_unit_weight$	QWI_FINAL_WEIGHT	00016	8	N

 $Page\ 231$

LEHD-OVERVIEW-S2004

Revision: 219

$\overline{7.2.5}$

Table 7.2: File information, by state , for QWI

-		Number of		Filesizes		
State		datafiles	Records	(MB)	Start	End
Covered states		26	166,312,551	583,715.02	1990Q1	2004Q3
Alabama	AL				2001Q1	2004Q2
Arkansas	AR	1	$534,\!484$	$4,\!176.01$	2002Q3	2004Q1
California	CA	1	$43,\!638,\!767$	89,783.13	1991Q3	2003Q4
Colorado	CO	1	5,605,248	43,791.32	1993Q2	2004Q1
Delaware	DE	1	$535,\!373$	1,078.45	1998Q3	2004Q1
Florida	FL	1	17,786,826	36,987.38	1992Q4	2004Q1
Iowa	IA	1	1,962,014	$15,\!328.57$	1998Q4	2004Q1
Idaho	ID	1	2,019,670	15,779.01	1991Q1	2004Q1
Illinois	IL				1990Q1	2004Q1
Indiana	IN	1	3,605,097	8,238.45	1998Q1	2004Q1
Kansas	KS				1993Q1	2004Q1
Kentucky	KY	1	$1,\!250,\!675$	2,841.88	2001Q1	2004Q1
Maryland	MD				1990Q1	2004Q1
Maine	ME	1	1,342,283	$10,\!486.88$	1996Q1	2004Q1
Minnesota	MN	1	4,748,456	9,316.32	1994Q3	2004Q3
Missouri	MO	1	$5,\!669,\!283$	44,291.57	1995Q1	2004Q1
Montana	MT	1	1,412,306	11,033.95	1993Q1	2004Q1
North Carolina	NC	1	$10,\!150,\!481$	$22,\!599.01$	1991Q1	2003Q4
North Dakota	ND	1	$546,\!389$	4,269.01	1998Q1	2004Q2
New Jersey	NJ	1	6,707,798	52,405.01	1996Q1	2004Q1
New Mexico	NM	1	$1,\!578,\!333$	$12,\!331.07$	1995Q3	2004Q1
Oklahoma	OK	1	$1,\!511,\!516$	11,809.07	1999Q1	2004Q1
Oregon	OR	1	5,424,000	$42,\!375.32$	1991Q1	2004Q1
Pennsylvania	PA	1	8,660,512	19,016.32	1997Q1	2004Q1
South Carolina	SC				1998Q1	2004Q3
Texas	TX	1	18,074,151	$40,\!863.13$	1995Q1	2004Q2
Virginia	VA	1	$4,\!572,\!014$	35,719.20	1995Q3	2004Q1
Vermont	VT	1	397,798	3,108.13	2000Q1	2004Q1
Washington	WA	1	$9,\!536,\!038$	$19,\!100.45$	1990Q1	2004Q1
Wisconsin	WI	1	7,712,727	$16,\!593.01$	1990Q1	2004Q1
West Virginia	WV	1	1,330,312	10,393.38	1997Q1	2004Q1

 $LEHD ext{-}OVERVIEW ext{-}S2004$ $Page\ 232$ Revision: 219

CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

7.3 NOTES

• Alabama (AL), Kansas (KS), and South Carolina (SC) are currently missing from data archive. A request has been put in to include them.

LEHD-OVERVIEW-S2004 Page 233

Revision: 219



Page 234 LEHD-OVERVIEW-S2004

Chapter 8. Unit-to-Worker Impute - Job location impute (U2W)

8.1 OVERVIEW

A primary objective of the QWI is to provide employment, job and worker flows, and wage measures at a very detailed levels of geography (place-of-work) and industry. The structure of the administrative data received by LEHD from state partners, however, poses a challenge to achieving this goal. QWI measures are primarily based on the processing of UI wage records which report, with the exception of Minnesota, only the legal employer (SEIN) of the workers. The ES-202 micro-data, however, are comprised of establishmentlevel records which provide the geographic and industry detail needed to produce the QWI. For employers operating only one establishment within a state, the assignment of establishment-level characteristics to UI wage records is straightforward because there is no distinction between the employer and the establishment. However, approximately 30 to 40 percent of state-level employment is concentrated in employers that operate more than one establishment in that state. For these multi-unit employers, the SEIN on workers' wage records identifies the legal employer in the ES-202 data, but not the employing establishment (place-of-work). Thus, establishment level characteristics-geography and industry, in particular-are missing data for these multiunit job histories.

In order to impute establishment-level characteristics to job histories of multi-unit employers, a nonignorable missing data model with multiple imputation was developed. The model imputes establishmentof-employment using two key characteristics available in the LEHD Infrastructure Files: 1) distance between place-of-work and place-of-residence and 2) the distribution of employment across establishments of multiunit employers. The distance to work model is estimated using data from Minnesota, where both the SEIN and SEINUNIT identifiers appear on a UI wage record. Then, the posterior distribution of the parameters from this estimation, combined with the actual SEIN and SEINUNIT employment histories from the ES-202 data, are used for multiple imputation of the SEINUNIT associated with for workers in a given SEIN in the data from states other than Minnesota. Emerging from this process is an output file, called the Unit-to-Worker (U2W) file, containing ten imputed establishments for each worker of a multi-unit employer. These implicates are then used in the downstream processing of the QWI.

The U2W process relies on information from each of the four Infrastructure Files-ECF, GAL, EHF, and ICF-as well as the auxiliary SPF file. Within the ECF, the universe of multi-unit employers is identified. For these employers, the ECF also provides establishment-level employment, date-of-birth, and geocodes (which are acquired from the GAL). The SPF contains information on predecessor relationships which may lead to the revision of date-of-birth implied by the ECF. Finally, job histories in the EHF in conjunction with place-of-residence information stored in the ICF provide the necessary worker information needed to estimate and apply the imputation model.

¹The actual SEINUNIT coded on the UI wage records is used for Minnesota, and would be used for any other state that provided such data. Note that there are occasional, and rare, discrepancies between the unit structure on the Minnesota wage records and the unit structure on the Minnesota ES-202 data for the same quarter. These discrepancies are resolved during the initial processing of the Minnesota data in its state-specific readin procedures.

$8.1.\overline{1}$ A probability model for employment location

8.1.1.1 Definitions

Let i = 1, ..., I index workers, j = 1, ..., J index employers (SEINs), and t = 1, ..., T index time (quarters). Let R_{jt} denote the number of active establishments at employer j in quarter t, let $\Re = \max_{j,t} R_{jt}$, and $r=1,...,\Re$ index establishments. Note that the index r is nested within j. Let N_{jrt} denote the quarter t employment of establishment r in employer j. Finally, if worker i was employed at employer j in t, denote by y_{ijt} the establishment at which the worker was employed.

Let \mathcal{J}_t denote the set of employers active in quarter t, let \mathcal{I}_{it} denote the set of individuals employed at employer j in quarter t, let \mathcal{R}_{jt} denote the set of active $(N_{jrt} > 0)$ establishments at employer j in t, and let $\mathcal{R}_{it}^i \subset \mathcal{R}_{jt}$ denote the set of active establishments that are feasible for worker i. Feasibility is defined as follows. An establishment $r \in \mathcal{R}_{it}^i$ if $N_{jrs} > 0$ for every quarter s that i was employed at j.

8.1.1.2 The probability model

Let $p_{ijrt} = \Pr(y_{ijt} = r)$. At the core of the model is the probability statement:

$$p_{ijrt} = \frac{e^{\alpha_{jrt} + x'_{ijrt}\beta}}{\sum_{s \in \mathcal{R}_{ij}^i} e^{\alpha_{jst} + x'_{ijst}\beta}}$$
(8.1)

where α_{jrt} is a establishment- and quarter-specific effect, x_{ijrt} is a time-varying vector of characteristics of the worker and establishment, and β measures the effect of characteristics on the probability of being employed at a particular establishment. In the current implementation, x_{ijrt} is a linear spline in the (greatcircle) distance between worker i's residence and the physical location of establishment r. The spline has knots at 25, 50, and 100 miles.

Using (8.1), the following likelihood is defined

$$p(y|\alpha, \beta, x) = \prod_{t=1}^{T} \prod_{j \in \mathcal{J}_t} \prod_{i \in \mathcal{I}_{jt}} \prod_{r \in \mathcal{R}_{jt}^i} (p_{ijrt})^{d_{ijrt}}$$
(8.2)

where

$$d_{ijrt} = \begin{cases} 1 & \text{if } y_{ijt} = r \\ 0 & \text{otherwise} \end{cases}$$
 (8.3)

and where y is the appropriately-dimensioned vector of the outcome variables y_{ijt} , α is the appropriatelydimensioned vector of the α_{jrt} , and x is the appropriately-dimensioned matrix of characteristics x_{ijrt} . For α_{jrt} , a hierarchical Bayesian model based on employment counts N_{jrt} is specified.

The object of interest is the joint posterior distribution of α and β . A uniform prior on β , $p(\beta) \propto 1$ is assumed. The characterization of $p(\alpha, \beta | x, y, N)$ is based on the factorization

$$p(\alpha, \beta | x, y, N) = p(\alpha | N) p(\beta | \alpha, x, y)$$

$$\propto p(\alpha | N) p(\beta) p(y | \alpha, \beta, x)$$

$$\propto p(\alpha | N) p(y | \alpha, \beta, x).$$
(8.4)

Thus, the joint posterior (8.4) is completely characterized by the posterior of α and the likelihood of y in (8.2). Note (8.2) and (8.4) assume that the employment counts N affect employment location y only through the parameters α .

8.1.1.3 Estimation

The joint posterior $p(\alpha, \beta|x, y, N)$ is approximated at the posterior mode. In particular, we estimate the posterior mode of $p(\beta|\alpha, x, y)$ evaluated at the posterior mode of α . From these we compute the posterior

LEHD-OVERVIEW-S2004 Page 236 Revision: 219 modal values of the α_{jrt} , then, maximize the log posterior density

$$\log p\left(\beta | \alpha, x, y\right) \propto \sum_{t=1}^{T} \sum_{j \in \mathcal{J}_t} \sum_{i \in \mathcal{I}_{jt}} \sum_{r \in \mathcal{R}_{jt}^i} d_{ijrt} \left(\alpha_{jrt} + x'_{ijrt} \beta - \log \left(\sum_{s \in \mathcal{R}_{jt}^i} e^{\alpha_{jst} + x'_{ijst} \beta} \right) \right)$$
(8.5)

which is evaluated at the posterior modal values of the α_{jrt} , using a modified Newton-Raphson method. The mode-finding exercise is based on the gradient and Hessian of (8.5). In practice, (8.5) is estimated for three employer employment size classes: 1-100 employees, 101-500 employees, and greater than 500 employees, using data for Minnesota.

8.1.2 Imputing place of work

After estimating the probability model using Minnesota data, the posterior distribution of the estimated β parameters is combined with the entity specific posterior distribution of the α parameters in the imputation process for other states. A brief outline of the imputation method, as it relates to the probability model previously discussed, is provided in this section. Emphasis is placed on not only the imputation process itself, but also the preparation of input data.

8.1.2.1 Sketch of the imputation method

Ignoring temporal considerations, 10 implicates are generated as follows. First, using the posterior mean and variance of β estimated from the Minnesota data, we take 10 draws of β from the normal approximation (at the mode) to $p(\beta|\alpha, x, y)$. Next, using ES-202 employment counts for the establishments, we compute 10 values of α_{jt} based on the hierarchical model for these parameters. Note that these are draws from the exact posterior distribution of the α_{jrt} . The drawn values of α and β are used to draw 10 imputed values of place of work from the asymptotic approximation to the posterior predictive distribution

$$p(\tilde{y}|x,y) = \int \int p(\tilde{y}|\alpha,\beta,x,y) p(\alpha|N) p(\beta|\alpha,x,y) d\alpha d\beta.$$
(8.6)

8.1.2.2 Implementation

Establishment data Using state-level micro-data, the set of employers (SEINs) that ever operate more that one establishment in a given quarter is identified; these SEINs represent the set of ever-multi-unit employers defined above as the set \mathcal{J}_t . For each of these employers, its establishment-level records are identified. For each establishment, latitude and longitude coordinates, parent employer (SEIN) employment, and ES-202 month-one employment² for the entire history of the establishment are retained. Those establishments with positive month-one employment in a given quarter characterize \mathcal{R}_{jt} , the set of all active establishments. An establishment birth date is identified and, in most cases, is the first quarter in the ES-202 time series in which the establishment has positive month-one employment. For some employers, predecessor relationships are identified in the SPF; in those instances, the establishment date-of-birth is adjusted to coincided with that of the predecessor's.

Worker data The EHF provides the earnings histories for employees of the ever-multi-unit employers. For each in-scope job (a worker-employer pair), one observation is generated for the *end* of each job spell, where a job spell is defined as a continuum of quarters of positive earnings for worker at a particular employer during which there are no more than 3 consecutive periods of non-positive earnings.³ The start date of the

²In rare instances where no ES-202 employment is available, an alternative employment measure based on UI wage record counts may be used.

³A new hire is defined in the QWI as a worker who accedes to a firm in the current period but was not employed by the same firm in any of the 4 previous periods. A new job spell is created if, for example, a worker leaves a firm for more than 4 quarters and is subsequently re-employed by the same firm.

job history is identified as the first quarter of positive earnings; the end date is the last date of positive earnings.⁴ These job spells characterize the set \mathcal{I}_{it}

Candidates Once the universe of establishments and workers is identified, data are combined and a priori restrictions and feasibility assumptions are imposed. For each quarter of the date series, the history of every job spell that ends in that quarter is compared to the history of every active (in terms of ES-202 first month employment) establishment of the employing employer (SEIN). The start date of the job spell is compared to the birth date of each establishment. Establishments that were born after the start of a job spell are immediately discarded from the set of candidate establishments. The remaining establishments constitute the set $\mathcal{R}_{it}^i \subset \mathcal{R}_{jt}$ for a job spell (worker) at a given employer.⁵

Given the structure of the pairing of job spells with candidate establishments, it is clear that within job spell changes of establishment are ruled-out. An establishment is imputed once for each job spell,⁶ thereby creating no spurious labor market transitions.

Imputation and output data Once the input data are organized, a set of 10 imputed establishment identifiers are generated for each job spell ending in every quarter for which both ES-202 and UI wage records exist. For each quarter, implicate, and size class, s = 1, 2, 3, the parameters on the linear spline in distance between place-of-work and place-of-residence $\hat{\beta}^s$ are sampled from the normal approximation of the posterior predictive distribution of β^s conditional on Minnesota (MN)

$$p(\beta^s | \alpha_{MN}, x_{MN}, y_{MN}) \tag{8.7}$$

The draws from this distribution vary across implicates, but not across time, employers, and individuals. Next, for each employer j at time t, a set of $\hat{\alpha}_{irt}$ are drawn from

$$p\left(\alpha_{ST}|N_{ST}\right) \tag{8.8}$$

which are based on the ES-202 month-one employment totals (N_{jrt}) for all candidate establishments $r_{jt} \subset \mathcal{R}_{jt}$ at employer j within the state (ST) being processed. The initial draws of $\hat{\alpha}_{jrt}$ from this distribution vary across time and employers but not across job spells. Combining (8.7) and (8.8) yields

$$p(\alpha_{ST}|N_{ST}) p(\beta^{s}|\alpha_{MN}, x_{MN}, y_{MN})$$

$$\approx p(\alpha_{ST}|N_{ST}) p(\beta^{s}|\alpha_{ST}, x_{ST}, y_{ST})$$

$$= p(\alpha_{ST}, \beta_{ST}|x_{ST}, y_{ST}, N_{ST}),$$
(8.9)

an approximation of the joint posterior distribution of α and β^s (8.4) conditional on data from the state being processed.

The draws $\hat{\beta}^s$ and $\hat{\alpha}_{jrt}$ in conjunction with the establishment, employer, and job spell data are used to construct the p_{ijrt} in (8.1) for all candidate establishments $r \in \mathcal{R}^i_{jt}$. For each job spell and candidate establishment combination, the $\hat{\beta}^s$ are applied to the calculated distance between place-of-residence (of the worker holding the job spell) and the location of the establishment, where the choice of $\hat{\beta}^s$ depends on the size class of the establishment's parent employer. For each combination an $\hat{\alpha}_{jrt}$ is drawn which is based primarily on the size (in terms of employment) of the establishment relative to other active establishments at the parent employer. In conjunction, these determine the conditional probability p_{ijrt} of a candidate establishment's assignment to a given job spell. Finally, from this distribution of probabilities is drawn an establishment of employment.

Page 238

LEHD-OVERVIEW-S2004

Revision: 219

⁴By definition, an end-date for a job spell is not assigned in cases where a quarter of positive earnings at a firm is succeeded by 4 or fewer quarters of non-employment and subsequent re-employment by the same firm.

⁵The sample of UI wage and QCEW data chosen for processing of the QWI is such that the start and end dates are the same. Birth and death dates of establishments are, more precisely, the dates associated with the beginning and ending of employment activity observed in the data. The same is true for the dates assigned to the job spells.

 $^{^6}$ More specifically, an establishment is imputed to a job spell only once within each implicate.

CHAPTER 8. UNIT-TO-WORKER IMPUTE - JOB LOCATION IMPUTE (U2W)

The imputation process yields a data file containing a set of 10 imputed establishment identifiers for each job spell. In a very small set of cases, the model fails to impute an establishment to a job spell. This is often due to unanticipated idiosyncrasies in the underlying administrative data. Furthermore, across states, the proportion of these failures relative to successful imputation is well under 0.5%. For these job spells, a dummy establishment identifier is assigned and in downstream processing, the employment-weighted modal employer-level characteristics are used.

 $LEHD ext{-}OVERVIEW ext{-}S2004$

8.2 DATA SET DESCRIPTIONS

8.2.1 Naming scheme

The U2W contains a single file per state:

u2w_zz.sas7bdat

ZZ stands for the state postal abbreviation. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

8.2.2 Data location

The files are stored in a main directory, with state-specific subdirectories:

u2w/ZZ/

On the RDC network, the directory can be found under

/mixed/lehd/current

8.2.3 Main dataset: u2w_zz

This files contain the 10 imputed establishment identifiers are generated for each job spell.

Record identifier PIK SEIN NEW_HIST_FLAG

Sort order PIK SEIN NEW_HIST_FLAG

Entity Job spell

Unique Entity Key PIK SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Start of spell YYYY.F (e.g. $2000Q2 = 2000.25$)	FIRST_DATE	00008	3	N
End of spell YYYY.F (e.g. $2000Q4 = 2000.75$)	LAST_DATE	00011	3	N
Spell number for same SEIN	NEW_HIST_FLAG	00014	3	N
Protected Identification Key	PIK	00017	9	A/N
State Employer Identification Number	SEIN	00026	12	A/N
State UI Reporting Unit Number (Impute 1)	IMPUTED_UNIT_1	00038	5	A/N
State UI Reporting Unit Number (Impute 10)	IMPUTED_UNIT_10	00083	5	A/N
State UI Reporting Unit Number (Impute 2)	IMPUTED_UNIT_2	00043	5	A/N
State UI Reporting Unit Number (Impute 3)	IMPUTED_UNIT_3	00048	5	A/N
State UI Reporting Unit Number (Impute 4)	IMPUTED_UNIT_4	00053	5	A/N
State UI Reporting Unit Number (Impute 5)	IMPUTED_UNIT_5	00058	5	A/N
State UI Reporting Unit Number (Impute 6)	IMPUTED_UNIT_6	00063	5	A/N
State UI Reporting Unit Number (Impute 7)	IMPUTED_UNIT_7	00068	5	A/N
State UI Reporting Unit Number (Impute 8)	IMPUTED_UNIT_8	00073	5	A/N
State UI Reporting Unit Number (Impute 9)	IMPUTED_UNIT_9	00078	5	A/N

Page 240 LEHD-OVERVIEW-S2004

8.2.4 Summary information on datasets

Table 8.2: File information, by state , for ${\rm U2W}$

		Number of		Filesizes		
State		datafiles	Records	(MB)	Start	End
Covered states		30	261,358,423	42,100.78	1990Q1	2004Q3
Alabama	AL	1	2,832,386	456.27	2001Q1	2004Q2
Arkansas	AR	1	1,071,394	172.60	2002Q3	2004Q1
California	CA	1	51,688,741	8,326.16	1991Q3	2003Q4
Colorado	CO	1	8,225,917	$1,\!325.07$	1993Q2	2004Q1
Delaware	DE	1	401,043	64.62	1998Q3	2004Q1
Florida	FL	1	$26,\!225,\!278$	4,224.45	1992Q4	2004Q1
Iowa	IA	1	3,315,824	534.13	1998Q4	2004Q1
Idaho	ID	1	1,975,273	318.20	1991Q1	2004Q1
Illinois	IL	1	16,180,380	2,606.40	1990Q1	2004Q1
Indiana	IN	1	6,700,422	1,079.34	1998Q1	2004Q1
Kansas	KS	1	3,848,376	619.93	1993Q1	2004Q1
Kentucky	KY	1	2,306,302	371.52	2001Q1	2004Q1
Maryland	MD	1	7,276,859	$1,\!172.20$	1990Q1	2004Q1
Maine	ME	1	1,202,672	193.74	1996Q1	2004Q1
Missouri	MO	1	9,635,562	$1,\!552.13$	1995Q1	2004Q1
Montana	MT	1	839,330	135.23	1993Q1	2004Q1
North Carolina	NC	1	18,248,391	2,939.51	1991Q1	2003Q4
North Dakota	ND	1	520,281	83.82	1998Q1	2004Q2
New Jersey	NJ	1	$7,\!415,\!146$	1,194.48	1996Q1	2004Q1
New Mexico	NM	1	1,705,814	274.79	1995Q3	2004Q1
Oklahoma	OK	1	2,133,936	343.76	2000Q1	2004Q1
Oregon	OR	1	5,830,196	939.16	1991Q1	2004Q1
Pennsylvania	PA	1	12,941,320	2,084.63	1997Q1	2004Q1
South Carolina	SC	1	3,516,612	566.48	1998Q1	2004Q3
Texas	TX	1	37,414,591	6,026.85	1995Q1	2004Q2
Virginia	VA	1	6,990,886	1,126.13	1998Q1	2004Q1
Vermont	VT	1	299,844	48.32	2000Q1	2004Q1
Washington	WA	1	8,811,217	1,419.35	1990Q1	2004Q1
Wisconsin	WI	1	10,109,963	1,628.55	1990Q1	2004Q1
West Virginia	WV	1	1,694,467	272.96	1997Q1	2004Q1

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8.3 NOTES

 $Page\ 242$ LEHD-OVERVIEW-S2004

CHAPTER 8. UNIT-TO-WORKER IMPUTE - JOB LOCATION IMPUTE (U2W) Space for your notes

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 219 \end{array}$

8.4 ACRONYMS USED

ASM Annual Survey of Manufacturers

BED Business Employment Dynamics

BES Business Expenditure Survey

BLS Bureau of Labor Statistics

BR Business Register, formerly known as the SSEL

BRB Business Register Bridge

CBSA Core-Based Statistical Area

CES Center for Economic Studies

CEW Covered Employment and Wages

CFN Census File Number

CM Census of Manufactures

CPS Current Population Survey

DRB Disclosure Review Board

ECF Employer Characteristics File

ES-202 ES-202. An older name for the QCEW program

EHF Employment History Files

EIN (federal) Employer Identification Number

FIPS Federal Information Processing Standards codes issued by National Institute of Standards and Technology (NIST)

FTI Federal Tax Information, typically covered under Title 26, U.S.C.

GAL Geocoded Address List

ICF Individual Characteristics File

IRS Internal Revenue Service

 ${f IRS}$ Internal Revenue Service

LDB Longitudinal Data Base

LED Local Employment Dynamics

LEHD Longitudinal Employer-Household Dynamics

LMI Labor Market Information

 \mathbf{MAF} Master Address File

MN Minnesota

MOU Memorandum of Understanding

Page 244

LEHD-OVERVIEW-S2004

CHAPTER 8. UNIT-TO-WORKER IMPUTE - JOB LOCATION IMPUTE (U2W)

MSA Metropolitan Statistical Area

NAICS North American Industry Coding System

NIST National Institute of Standards and Technology

OTM OnTheMap

PHF Person History File

PIK Protected Identity Key

PPN Permanent Plant Number

QCEW Quarterly Census of Employment and Wages, managed by the Bureau of Labor Statistics (BLS)

QWI Quarterly Workforce Indicators

RDC Research Data Center

SEIN State employer identification number. It is constructed from the state Federal Information Processing Standards (FIPS) code and the UI account number. The BLS refers to the UI account number in combination with the reporting unit number as SESA-ID

SEINUNIT SEIN reporting unit

SESA State Employment Security Agency

SIC Standard Industry Classification

SIPP Survey of Income and Program Participation

 \mathbf{SPF} Successor-Predecessor File

SSA Social Security Administration

SSN Social Security Number

U2W Unit-to-Worker Impute

 ${f UI}$ unemployment insurance



Page 246 LEHD-OVERVIEW-S2004

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LEHD-OVERVIEW-S2004 Page 247

8.5 ERRATA

Release 165:

• ICF: county_live and countyliveimputed were wrongly attributed to the FTI-free file. county_live is FTI.

Please report any additional errors to the authors of this document.

Page 248

LEHD-OVERVIEW-S2004

Revision: 219

BIBLIOGRAPHY

\$Id: overview_master.tex 219 2008-08-20 13:50:26Z vilhu001 \$