LEHD INFRASTRUCTURE FILES IN THE CENSUS RDC:

OVERVIEW OF S2004 SNAPSHOT

by

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Abstract

The Longitudinal Employer-Household Dynamics (LEHD) Program at the U.S. Census Bureau, with the support of several national research agencies, has built a set of infrastructure files using administrative data provided by state agencies, enhanced with information from other administrative data sources, demographic and economic (business) surveys and censuses. The LEHD Infrastructure Files provide a detailed and comprehensive picture of workers, employers, and their interaction in the U.S. economy.

This document describes the structure and content of the 2004 Snapshot of the LEHD Infrastructure files as they are made available in the Census Bureau's Research Data Center network.

JEL Codes: J00, J10, J20, J30, J40, J60, M50

Keywords: LEHD, linked employer-employee data, workers, employers, jobs, hires, separations, recalls, mobility

* This document reports the results of research and analysis undertaken by the U.S. Census Bureau staff. It 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 was partially supported by the following National Science Foundation Grants SES-9978093, SES-0339191 and ITR-0427889; National Institute on Aging Grant 5 R01 AG018854-02, and grants from the Alfred P. Sloan Foundation. Any opinions and conclusions expressed herein are those of the author(s) and do not necessarily represent the views of the U.S. Census Bureau. All results have been reviewed to ensure that no confidential information is disclosed. The U.S. Census Bureau supports external researchers use of these data through the Research Data Centers (see www.census.gov/ces).

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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.

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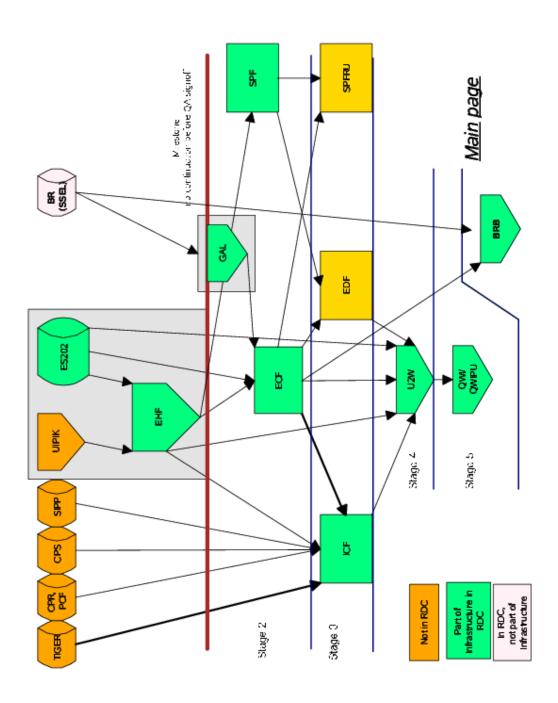


Figure 1.1: Data flow view of LEHD Infrastructure

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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.

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

1.4 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 April 13, 2011, 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.

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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

Indiana (IN): yes South Dakota (SD): (pending)

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

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

Louisiana (LA): 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)

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Table 1.3: Data availability, by state and process

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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.

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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

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

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$\overline{2.2}$ 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

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- 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

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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

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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

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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).

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

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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

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$\overline{2.4.3}$ 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 | $\rm FLAG_E_S_2$ | 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 | 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

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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 |

2.4.5 ECF 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 |

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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
ALGORITHM read-in

ALGORITHM read-in
SOURCEFILE BR and ECF, if available

ALTERNATE DOCUMENTATION n.a.

VALUE TABLE

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| 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

 $\begin{array}{c} {\rm read\text{-}in} \\ {\rm ECF/BR} \end{array}$

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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| 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

read-in ECF/BR

Sourcefile ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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| 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

.

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

${\it CHARACTERISTICS}$

Units

Identifier

Algorithm

read-in

Sourcefile

BR

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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| 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 SOURCEFILE

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN level

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| 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

computed see 04_brb.sas

Sourcefile ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC1 level

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| 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

Sourcefile

see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC2 level

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| 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

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

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| | D | | T: 11 | D : |
|---------------------------|-----------------|----------|-------|------|
| 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

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| 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

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| 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

n.a.

ALTERNATE DOCUMENTATION

VALUE TABLE

B: only in BR L: only in LEHD

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

| Field name | | Data dictionary | Starting | Field | Data |
|-----------------------|----|-----------------|----------|-------|------|
| | | reference name | position | size | type |
| Match | ag | FLAG_E_S_C_1 | 00047 | 1 | A/N |
| EIN/STATE/COUNTY/SIC1 | | | | | |

CHARACTERISTICS

Units Flag

Algorithm

computedsee 04_brb.sas

Sourcefile 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 fla | FLAG_E_S_C_2 | 00046 | 1 | A/N |
| EIN/STATE/COUNTY/SIC2 | | | | |

CHARACTERISTICS

Units

Flag

Algorithm

computedsee 04_brb.sas

Sourcefile

n.a.

ALTERNATE DOCUMENTATION

VALUE TABLE

B: only in BR L: only in LEHD

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

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Page~45

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

CHARACTERISTICS

Units Flag

Algorithm

computedsee 04_brb.sas

Sourcefile

n.a.

ALTERNATE DOCUMENTATION

VALUE TABLE

B: only in BR L: only in LEHD

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

 $LEHD ext{-}OVERVIEW ext{-}S2004$ Page~46

| Field name | Data dictionary | Starting | Field | Data |
|-----------------------|-----------------|----------|-------|------|
| | reference name | position | size | type |
| Match | g 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

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| 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 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/SIC2 level

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| 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 Algorithm

Flag

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/SIC3 level

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| 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

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| 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 sic1 = substr(sic4,1,1)

Sourcefile ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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| 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

.

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| 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

n.a.

Sourcefile

sic3 = substr(sic4,1,3)

ALTERNATE DOCUMENTATION

 ${\tt VALUE\ TABLE}$

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| 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

Algorithm

derived

Sourcefile

sic2 = substr(sic4,1,2)

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

.

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Revision: 420

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

${\it CHARACTERISTICS}$

Units Calendar read-in

Algorithm ECF and BR Sourcefile

ALTERNATE DOCUMENTATION n.a.

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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

Algorithm read-in

Sourcefile BR

Alternate documentation n.a.

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

${\it CHARACTERISTICS}$

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

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

CHARACTERISTICS

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

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

${\it CHARACTERISTICS}$

Units Geography

state=lowcase(fipstate(stgeo)) Algorithm

Sourcefile derived

ALTERNATE DOCUMENTATION n.a.

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| 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

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Sourcefile

ALTERNATE DOCUMENTATION

BR n.a.

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

${\it CHARACTERISTICS}$

Units Geography

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.:

n.a.

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| 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

 $\begin{array}{ccc} Sourcefile & BR \\ Alternate \ documentation & n.a. \end{array}$

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

${\it CHARACTERISTICS}$

Units Identifier

Algorithm

read-in

Sourcefile

BR

ALTERNATE DOCUMENTATION

n.a.

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Revision: 420

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

${\it CHARACTERISTICS}$

Units Calendar

Algorithm read-in

 $\begin{array}{ccc} Sourcefile & BR \\ Alternate \ documentation & n.a. \end{array}$

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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
ALGORITHM read-in

Sourcefile ECF (availability differs across states)

ALTERNATE DOCUMENTATION ECF documentation

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

${\it CHARACTERISTICS}$

UNITS Geography
PRITHM read-in

ALGORITHM read-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

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

${\it CHARACTERISTICS}$

Units Geography

Algorithm $rename\ es_state = stgeo$

Sourcefile ECF

ECF documentation ALTERNATE DOCUMENTATION

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

| 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.

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| 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

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

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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

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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

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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. |

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2.6 NOTES

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Chapter 3. Employer Characteristics File (ECF)

3.1 **OVERVIEW**

3.1.1General 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, 2009).
- 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.

3.1.3Program 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 UI data is integrated with the ES202 data and totals are calculated at the SEIN YEAR QUARTER level.

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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.

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3.3 DATA SET DESCRIPTIONS

3.3.1Naming 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:

ecf/ZZ/ for most files ecft26/ZZ for files with Title 26 protected content

On the RDC network, both directories can be found under

/mixed/lehd/current

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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.

| reference name | Field name | Data dictionary | Starting | Field | Data |
|---|-----------------------------------|-----------------------|----------|-------|------|
| 0-cb.k.]=not found,2+found off qtr | | reference name | position | size | type |
| 0-cok. =not found,2+found off qtr | 0 if seinunit=00000 | I | | 3 | |
| 0-cok. =mot found,2+found off qtr ES.MAISS 907.MISS 00240 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.2002.MISS 00243 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.2002.MISS 00246 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.AUX.1997.MISS 00246 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.AUX.2002.MISS 00249 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.E00.197.MISS 00318 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.E00.197.MISS 00321 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.E00.197.MISS 00324 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.E00.197.MISS 00324 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.MP1.997.MISS 00327 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.MP1.997.MISS 00024 8 N 0-cok,1=mot found,2+found off qtr ES.MAICS.MP1.997.MISS 00024 8 N 0-cok,1=mot found,2+found off qtr ES.MAICS.LDB1.997.MISS 00025 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.LDB1.997.MISS 00252 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.LDB1.997.MISS 00255 3 N 0-cok,1=mot found,2+found off qtr ES.MAICS.LDB.1997.MISS 00255 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00257 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00257 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00251 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00261 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00261 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00255 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00257 3 N 0-cok,1=mot found,2+found off qtr ES.MICS.MISS 00261 3 N 0-cok,1=mot found,2+found | | ES_COUNTY_MISS | 00258 | 3 | N |
| 0=ck,1=not found,2+found off qtr | | ES_EIN_MISS | 00264 | 3 | N |
| 0=ok,l=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS1997_MISS | 00240 | 3 | N |
| 0=0k,l=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS2002_MISS | 00243 | 3 | N |
| 0=0k,l=not found,2+found off qtr ES.NAICS_ESO1997_MISS 0.3321 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_ESO2002_MISS 0.0321 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_FNL1997_MISS 0.0324 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_FNL1997_MISS 0.0327 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_MP1997_MISS 0.0016 8 N 0=0k,l=not found,2+found off qtr ES.NAICS_MP1997_MISS 0.0016 8 N 0=0k,l=not found,2+found off qtr ES.NAICS_MP1997_MISS 0.0024 8 N 0=0k,l=not found,2+found off qtr ES.NAICS_LDE1997_MISS 0.0025 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_LDE1907_MISS 0.0025 3 N 0=0k,l=not found,2+found off qtr ES.NAICS_LDE1907_MISS 0.0025 3 N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE_MISS 0.0025 3 N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE_MISS 0.0025 3 N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE_MISS 0.00237 3 N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE 0.0066 4 N N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE 0.0066 4 N N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE 0.0067 6 N N 0=0k,l=not found,2+found off qtr ES.OWNER_CODE 0.0067 6 N N 0=0k,l=not found,2+fo | 0=ok,1=not found,2+found off qtr | ES_NAICS_AUX1997_MISS | 00246 | 3 | N |
| O=ok, l=not found, 2+found off qtr | 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_FNL2002_MISS 00327 3 N 0=ok,1=not found,2+found off qtr ES_NAICS_INP12002_MISS 00327 3 N 0=ok,1=not found,2+found off qtr ES_NAICS_INP1997_MISS 00016 8 N 0=ok,1=not found,2+found off qtr ES_NAICS_LDB1997_MISS 00024 8 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_NAICS_LDB2002_MISS 00255 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_NAICS_LDB2002_MISS 00237 3 N 1=UI only,2=202 only,3=both SOURCE 00189 3 N 1=UI only,2=202 only,3=both SOURCE 00189 3 N Auxiliary_Cobe 0543 1 A/N Best SEIN UI Employment EMP1_UI 00096 4 N Best SEIN UI Employment Month 1 BEST_EMP2 00110 4 | 0=ok,1=not found,2+found off qtr | ES_NAICS_ESO1997_MISS | 00318 | 3 | N |
| 0=0k,l=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_ESO2002_MISS | 00321 | 3 | N |
| D=ck,l=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_FNL1997_MISS | 00324 | 3 | N |
| D=ok,l=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_FNL2002_MISS | 00327 | 3 | N |
| D=ok,1=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_IMP1997_MISS | 00016 | 8 | N |
| O=ok,1=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_IMP2002_MISS | 00024 | 8 | N |
| D=ok,1=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_LDB1997_MISS | 00252 | 3 | N |
| Desk,1=not found,2+found off qtr | 0=ok,1=not found,2+found off qtr | ES_NAICS_LDB2002_MISS | 00255 | 3 | N |
| I=UI only,2=202 only,3=both | 0=ok,1=not found,2+found off qtr | ES_OWNER_CODE_MISS | 00261 | 3 | N |
| Auxiliary Code | 0=ok,1=not found,2+found off qtr | ES_SIC_MISS | 00237 | 3 | N |
| Best SEÏN UI Employment | 1=UI only,2=202 only,3=both | SOURCE | 00189 | 3 | N |
| Best SEIN UI Employment | Auxiliary Code | AUXILIARY_CODE | 00543 | 1 | A/N |
| Best SEIN UI Employment | Best SEIN UI Employment | EMP1_UI | 00096 | 4 | N |
| Best UI/202 Employment Month 1 BEST_EMP2 00112 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 00661 6 A/N Cleaned 2002 NAICS Code NNNNNN ES_NAICS_LDB1997 00681 6 A/N Cleaned 2002 NAICS Code NNNNNN ES_NAICS_LDB2002 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 ES02 FIPS County CCC ES_COUNTY 00645 3 A/N <t< td=""><td>Best SEIN UI Employment</td><td>EMP2_UI</td><td>00100</td><td>4</td><td>N</td></t<> | Best SEIN UI Employment | EMP2_UI | 00100 | 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_NAICS_2002 00663 6 A/N Cleaned 1997 NAICS Code NNNNNN ES_NAICS_AUX1997 00669 6 A/N Cleaned 2092 NAICS Code NNNNNN ES_NAICS_AUX2002 00675 6 A/N Cleaned 2002 NAICS Code NNNNNN ES_NAICS_AUX2002 00675 6 A/N Cleaned 2002 NAICS Code NNNNNN ES_NAICS_AUX2002 00675 6 A/N Cleaned 2002 NAICS Code NNNNNN ES_NAICS_AUX2002 00675 6 A/N Cleaned ESQUE CODE CODITY 00648 9 A/N Cleaned ESQUE FIPS County CCC ES_COUNTY 00648 9 A/N Cleaned GEO FIPS County CCC LEG_STATE 00634 2 A/N | Best SEIN UI Employment | EMP3_UI | 00104 | 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 NNNNN 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 00648 9 A/N Cleaned GEO FIPS County CCC LEG_COUNTY 00638 3 A/N Cleaned GEO State SS LEG_STATE 00634 2 A/N Cleaned SIC Code III ES_SIC_3 00929 3 A/N Cleaned SIC | Best UI/202 Employment Month 1 | BEST_EMP1 | 00108 | 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.NAICS.LDB2002 00687 6 A/N Cleaned ES202 FIPS County CCC ES.COUNTY 00648 9 A/N Cleaned GEO FIPS County CCC LEG.COUNTY 00638 3 A/N Cleaned GEO State SS LEG.STATE 00634 2 A/N Cleaned SIC Code II ES.SUC.2 00927 2 A/N Cleaned SIC Code IIII ES.SIC.3 00929 3 A/N Cleaned S | Best UI/202 Employment Month 2 | BEST_EMP2 | 00112 | 4 | 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_LUX2002 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 SIC Code II ES_SIC_2 00927 2 A/N Cleaned SIC Code III ES_SIC_3 00929 3 A/N Cleaned SIC Division I ES_SIC_DIV 00641 4 A/N Cleaned SIC D | Best UI/202 Employment Month 3 | BEST_EMP3 | 00116 | 4 | 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 SIC Code II ES_SUC_2 00927 2 A/N Cleaned SIC Code III ES_SIC_3 00929 3 A/N Cleaned SIC Division I ES_SIC_DIV 00942 1 A/N Cleaned SIC Division I ES_SIC_DIV 00498 6 A/N EIN in known IRD | Best UI/202 Wages | $BEST_WAGES$ | 00206 | 5 | 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 00648 9 A/N Cleaned ES202 FIPS County CCC ES_COUNTY 00648 9 A/N Cleaned GEO FIPS County CCC ES_COUNTY 00645 3 A/N Cleaned GEO State SS LEG_COUNTY 00638 3 A/N Cleaned GEO State SS LEG_STATE 00634 2 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 Division I ES_SIC_DIV 00942 1 A/N Cleaned SIC Division I ES_SIC_DIV 00942 1 A/N EIN in known IRD VALID_EIN <td< td=""><td>Cleaned 1997 NAICS Code NNNNNN</td><td>ES_NAICS1997</td><td>00657</td><td>6</td><td>A/N</td></td<> | Cleaned 1997 NAICS Code NNNNNN | ES_NAICS1997 | 00657 | 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 III ES_SIC_2 00927 2 A/N Cleaned SIC Code IIII ES_SIC_3 00929 3 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 00636 2 A/N ES202 FIPS State SS ES_STATE <td></td> <td>ES_NAICS2002</td> <td>00663</td> <td>6</td> <td>A/N</td> | | ES_NAICS2002 | 00663 | 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 III ES_SIC_2 00927 2 A/N Cleaned SIC Code IIII ES_SIC_3 00929 3 A/N Cleaned SIC Code IIII ES_SIC_DIV 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 ES_202 FIPS State SS ES_STATE 00 | | ES_NAICS_AUX1997 | 00669 | | |
| 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 IIII 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 | | ES_NAICS_LDB1997 | 00681 | | |
| 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 IIII 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 | | ES_NAICS_AUX2002 | 00675 | | |
| 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 IIII ES_SIC_3 00929 3 A/N Cleaned SIC Code IIII ES_SIC_DIV 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 | Cleaned 2002 NAICS Code NNNNNN | ES_NAICS_LDB2002 | 00687 | | 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 IIII ES_SIC_3 00929 3 A/N Cleaned SIC Code IIII ES_SIC_DIV 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 | | | 00648 | | 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 IIII 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 | v | ES_COUNTY | 00645 | | |
| 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 | · · | LEG_COUNTY | | | |
| 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 | | | | | 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 | | | | | |
| 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 | | | | | |
| 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 | | | | _ | |
| 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 | | | | | |
| 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 FIPS State SS ES_STATE 00636 2 A/N ES202 Multi Unit Code MULTI_UNIT_CODE 00509 1 A/N | | | | | |
| ES202 Multi Unit Code MULTI_UNIT_CODE 00509 1 A/N | | | | | |
| , | | | | | |
| ECONO CALLY 1007 MATCH Code MANNAMA DE MATCH DOCTOR CONTROL CALLAN | | | | | |
| E5202 ONLI 1991 NAICS Code ININININ E52NAICS_E501991 00100 6 A/N | ES202 ONLY 1997 NAICS Code NNNNNN | ES_NAICS_ESO1997 | 00706 | 6 | A/N |

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

| CHAPTER 3. EMPLOYER CHARACTERI | | | D: 11 | |
|--|--|------------------|--------|------------|
| Field name | Data dictionary | Starting | Field | Data |
| | 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 MGA PMGA 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 WILLEMP | 00881 | 2 | A/N |
| Emp Mode Cleaned GEO WIB Emp Mode Cleaned NAICS 1997 | MODE ES NAICS ESO1007 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_ESO2002_EMP | 00832 | 6 | 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 | N |
| 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 3 | N N |
| Letters a-z,A-Z in EIN Longitude, 6 implied decimal places | EIN_BAD | $00217 \\ 00008$ | 8 | N |
| MSAPMSA metro area code, mmmmmmmm | LEG_MSARMSA | 00595 | 8 | A/N |
| MULTI ever ES202 wages | LEG_MSAPMSA EVER_WAGES | 00166 | 3 | N 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 | 00351 | 3 | N |
| Missing Value | MODE_ES_NAICS_ESO1997_EMP_MISS | 00411 | 3 | N |
| Missing Value | MODE_ES_NAICS_ESO1997_MISS | 00333 | 3 | N |
| Missing Value | MODE_ES_NAICS_ESO2002_EMP_MISS | 00414 | 3 | N |
| Missing Value | MODE_ES_NAICS_ESO2002_MISS | 00336 | 3 | N |
| Missing Value | MODE_ES_NAICS_FNL1997_EMP_MISS | 00417 | 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_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 MEADMEA EMP MISS | 00363 | 3 3 | N N |
| Missing Value Missing Value | MODE_LEG_MSAPMSA_EMP_MISS | $00435 \\ 00357$ | 3 3 | N N |
| Missing Value Missing Value | MODE LEC STATE FMP MISS | 00438 | 3 3 | N |
| Missing Value Missing Value | MODE_LEG_STATE_EMP_MISS MODE_LEG_STATE_MISS | 00458 | 3 3 | N |
| minoring variate | MODELEG DIATELMISS | 00000 | 3 | 11 |
| | | | | |

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| 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 Sico 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 | NAICS2002 NAICS_AUX1997 | 00531 | 6 | A/N |
| Original NAICS AUX 2002 Code | NAICS_AUX2002 | 00537 | 6 | A/N |
| Original NAICS ACA 2002 Code Original NAICS LDB 1997 Code | NAICS_AGAZO02 NAICS_LDB1997 | 00568 | 6 | A/N |
| Original NAICS LDB 1997 Code Original NAICS LDB 2002 Code | NAICS_LDB1997 NAICS_LDB2002 | 00574 | 6 | A/N |
| Original Owner Code | OWNER_CODE | 00544 | 1 | A/N |
| Original UI Payroll Info W1 | PAYROLL | 00147 | 5 | N N |
| Problem with EIN | | | 3 | N |
| | EIN_DEFECT | 00220 | 3 | N N |
| Quality of final geography | LEG_GEO_QUAL | 00231 00144 | ა 3 | N N |
| Quarter QQ | QUARTER | | 3 | N N |
| Quarters Away County data found | ES_COUNTY_FLAG | 00288 | 3 3 | |
| Quarters Away Data Found | MODE_ES_COUNTY_EMP_FLAG | 00462 | 3 3 | N |
| Quarters Away Data Found | MODE_ES_COUNTY_FLAG | 00384 | 3 3 | N |
| Quarters Away Data Found | MODE_ES_EIN_EMP_FLAG | 00468 | | 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 | ${\tt MODE_LEG_MSAPMSA_EMP_FLAG}$ | 00474 | 3 | N |
| Quarters Away Data Found | ${\tt MODE_LEG_MSAPMSA_FLAG}$ | 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 | MODE_LEG_SUBCTYGEO_EMP_FLAG | 00483 | 3 | N |
| Quarters Away Data Found | ${\tt MODE_LEG_SUBCTYGEO_FLAG}$ | 00405 | 3 | N |
| Quarters Away Data Found | $MODE_LEG_WIB_EMP_FLAG$ | 00471 | 3 | N |
| Quarters Away Data Found | $MODE_LEG_WIB_FLAG$ | 00393 | 3 | N |
| Quarters Away EIN data found | ES_EIN_FLAG | 00294 | 3 | N |
| Quarters Away NAICS data found | ES_NAICS1997_FLAG | 00270 | 3 | N |
| Quarters Away NAICS data found | ES_NAICS2002_FLAG | 00273 | 3 | N |
| Quarters Away NAICS data found | ES_NAICS_AUX1997_FLAG | 00276 | 3 | N |
| Quarters Away NAICS data found | ES_NAICS_AUX2002_FLAG | 00279 | 3 | N |
| Quarters Away NAICS data found Quarters Away NAICS data found | ES_NAICS_LDB1997_FLAG | 00219 | 3 | N |
| guarrers Away IVAIOS data loulid | ES_NATOS_LDET991_FLAG | 00202 | ა | 11 |

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| Field name | Data dictionary | Starting | Field | Data |
|--|--|------------------|---------------|------------|
| | 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_WAGES | 00152 | $\frac{5}{4}$ | N N |
| SEIN Best UI/202 Month 1, Employment SEIN Best UI/202 Month 2, Employment | SEIN_BEST_EMP1 SEIN_BEST_EMP2 | $00120 \\ 00124$ | 4 | N N |
| SEIN Best UI/202 Month 3, Employment | SEIN_BEST_EMP2 SEIN_BEST_EMP3 | 00124 | 4 | N |
| SEIN Best UI/202 Payroll | SEIN_BEST_WAGES | 00126 | 5 | N |
| SEIN UI Wages | WAGES_UI | 00223 | 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 | ES_NAICS2002_VALID | 00303 | 3 | N |
| Seinunit has some NAICS info | es_naics_aux1997_valid | 00306 | 3 | N |
| Seinunit has some NAICS info | ES_NAICS_AUX2002_VALID | 00309 | 3 | N |
| Seinunit has some NAICS info | ES_NAICS_LDB1997_VALID | 00312 | 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 Source of Ind Code | ES_NAICS_AUX2002_SRC ES_NAICS_ESO1997_SRC | $00742 \\ 00763$ | 3 | A/N A/N |
| Source of Ind Code | ES_NAICS_ESO1997_SRC ES_NAICS_ESO2002_SRC | 00766 | 3 | A/N |
| Source of Ind Code | ES_NAICS_ESO2002_SRC ES_NAICS_FNL1997_SRC | 00751 | 3 | A/N 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 | ES_NAICS_LDB1997_SRC | 00745 | 3 | A/N |
| Source of Ind Code | ES_NAICS_LDB2002_SRC | 00748 | 3 | A/N |
| Source of Ind Code | ES_SIC_SRC | 00730 | 3 | A/N |
| Source of best_ data | BEST_FLAG | 00214 | 3 | Ň |
| 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 | ${\tt MASTER_EMPL_MONTH2_FLG}$ | 00515 | 1 | A/N |
| Stored Master Record Flag | MASTER_EMPL_MONTH3_FLG | 00516 | 1 | A/N |
| Stored Master Record Flag | $MASTER_TOTAL_WAGES_FLG$ | 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 | 00060 | 4 | N |
| Unit Mode Cleaned County | MODE_ES_COUNTY | 00773 | 3 | A/N |
| Unit Mode Cleaned EIN | MODE_ES_EIN | 00776 | 9 | A/N |
| Unit Mode Cleaned GEO COUNTY | MODE_LEG_COUNTY | 00883 | 3 | A/N |
| Unit Mode Cleaned GEO COUNTY | MODE LEG MEARMEA | 00889 | 10 | A/N |
| Unit Mode Cleaned GEO MSAPMSA | MODE_LEG_MSAPMSA | 00863 | 8 | A/N |
| Unit Mode Cleaned GEO STATE Unit Mode Cleaned GEO WIB | MODE_LEG_STATE MODE_LEG_WIB | $00879 \\ 00851$ | 2 | A/N A/N |
| | | HUX51 | 6 | Δ / Ν |

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| 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 |

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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 | ${\tt MODE_LEG_COUNTY_EMP_MISS}$ | 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 | MODE_LEG_MSAPMSA_MISS | 00160 | 3 | N |
| | | | | |

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| 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 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 | | 3 | N |
| Quarters Away Data Found Quarters Away Data Found | MODE LEG WIR EMP ELAG | $00208 \\ 00274$ | 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 |
| tate Employer ID Number | SEIN | 00289 | 12 | A/ |
| JI Employment B | SEINSIZE_B | 00028 | 4 | ľ |
| JI Employment E | SEINSIZE_E | 00024 | 4 | 1 |
| JI Employment M | SEINSIZE_M | 00020 | 4 | 1 |
| Jnit Mode Cleaned County | MODE_ES_COUNTY | 00313 | 3 | Α/ |
| Jnit Mode Cleaned EIN | MODE_ES_EIN | 00316 | 9 | A/ |
| Unit Mode Cleaned GEO COUNTY | MODE_LEG_COUNTY | 00423 | 3 | A/ |
| Unit Mode Cleaned GEO COUNTY | MODE_LEG_SUBCTYGEO | 00429 | 10 | A/: |
| Unit 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 |

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| 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 |

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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 |

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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

 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 = 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

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

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```
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

```
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 = SU, ES202 wages, UI employment is used 2 = SU, UI wages, ES202 employment is used 3 = SU, ES202 wages and employment are used 4 = 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.

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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

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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.

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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 \rightarrow 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

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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 | | |

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| Variable Name | Source | Notes 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.

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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

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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_fig 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:

= unknown

1 not imputed

imputed (including prorated multiple worksite data)

Late 1995 or early 1996:

0 prorated data (multiple worksites)

actual or not imputed data

estimated data

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

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Blank = reported data

R = reported data

A = estimated from CES report

C = changed (re-reported)

D = reported from missing data notice

E = imputed single unit employment or imputed worksite employment

prorated from imputed parent record

H = hand-imputed (not system generated)

L = late reported (overrides prior imputation)

 $M = missing \ data$

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

 $P = prorated \ from \ reported \ master \ to \ worksite$

S = aggregated master from reported MWR or EDI data

W = estimated 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

4 = Multi-establishment employer reporting as a single unit due to unavailability of data, including refusals

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

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

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- 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

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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 |

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 420 \end{array}$

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 417 2011-04-13 20:47:13Z 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;
```

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

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.

```
%let state=tx;
libname INLIB "/mixedtmp/lehd/s2004/ecf/&state./";
data mydata/view=mydata;
   set INLIB.ecf_&state._seinunit
       (where=(sample_seinunit <= 0.05));</pre>
run:
proc reg data=mydata;
model y= x w z;
run;
```

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.

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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 employee-employer 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).

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$\overline{4.2}$ 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.

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4.3 DATA SET DESCRIPTIONS

4.3.1 Naming 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_uhf.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.

4.3.2 Data location

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

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4.3.3 UI-based Output Files

4.3.3.1 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 | A/N |

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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 |

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------------|----------|-------|------|
| | reference name | position | size | type |
| Employment in QTIME=66 | Е66 | 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 |

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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 reference name | Starting position | Field size | Data 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 |

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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 SEI-**NUNIT** 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 | ${f E}$ | 00008 | 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 |

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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

| reference name | Field name | Data dictionary | Starting | Field | Data |
|---|--|------------------------|----------|-------|------|
| master unit ACTIVE_EMPLOY_ES 01954 80 A/N Ever had positive employment ACTIVE_EVER_ES 01920 8 N First QTIME with positive employment ACTIVE_EBG_QTR_ES 01920 8 N Last QTIME with positive employment ACTIVE_EBG_QTR_ES 01931 3 N Maximum monthly employment in QTIME=1 EMP_ES1 00640 8 N Maximum monthly employment in QTIME=11 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=14 EMP_ES13 00736 8 N Maximum monthly employment in QTIME=15 EMP_ES15 00752 8 N Maximum monthly employment in QTIME=17 EMP_ES16 00760 8 N Maximum monthly employment in QTIME=18 EMP_ES18 00776 8 N Maximum monthly employment in QTIME=29 EMP_ES19 00784< | | reference name | position | size | type |
| =1 if positive employment in quarter i | 1 if part of multi-establishment,2 if | MU_CODE | 02034 | 80 | A/N |
| Ever had positive employment | master unit | | | | |
| First QTIME with positive employment | | ACTIVE_EMPLOY_ES | 01954 | 80 | A/N |
| Last QTIME with positive employment ACTIVE_END_QTR_ES 01931 3 N | | ACTIVE_EVER_ES | | | |
| 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_ES12 00728 8 N Maximum monthly employment in QTIME=13 EMP_ES12 00728 8 N Maximum monthly employment in QTIME=13 EMP_ES13 00736 8 N Maximum monthly employment in QTIME=15 EMP_ES15 00752 8 N Maximum monthly employment in QTIME=16 EMP_ES15 00752 8 N Maximum monthly employment in QTIME=16 EMP_ES15 00760 8 N Maximum monthly employment in QTIME=18 EMP_ES17 00768 8 N Maximum monthly employment in QTIME=19 EMP_ES18 00776 8 N Maximum monthly employment in QTIME=20 EMP_ES20 00784 8 N Maximum monthly employment in QTIME=21 EMP_ES20 00792 8 N Maximum monthly employment in QTIME=21 EMP_ES21 <td< td=""><td>1 1 1</td><td>$ACTIVE_BEG_QTR_ES$</td><td>01928</td><td></td><td></td></td<> | 1 1 1 | $ACTIVE_BEG_QTR_ES$ | 01928 | | |
| 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_ES15 00736 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_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_ES21 00800 8 N Maximum monthly employment in QTIME=21 EMP_ES21 00800 8 N Maximum monthly employment in QTIME=24 EMP_ES23 <td< td=""><td></td><td>$ACTIVE_END_QTR_ES$</td><td></td><td></td><td></td></td<> | | $ACTIVE_END_QTR_ES$ | | | |
| 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_ES16 00760 8 N Maximum monthly employment in QTIME=18 EMP_ES17 00768 8 N Maximum monthly employment in QTIME=19 EMP_ES19 00776 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=22 EMP_ES21 00800 8 N Maximum monthly employment in QTIME=23 EMP_ES23 <td< td=""><td></td><td>EMP_ES1</td><td></td><td>8</td><td></td></td<> | | EMP_ES1 | | 8 | |
| 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=29 EMP_ES19 00784 8 N Maximum monthly employment in QTIME=20 EMP_ES20 00648 8 N Maximum monthly employment in QTIME=21 EMP_ES20 00792 8 N Maximum monthly employment in QTIME=23 EMP_ES21 00800 8 N Maximum monthly employment in QTIME=23 EMP_ES23 00816 8 N Maximum monthly employment in QTIME=25 EMP_ES26 < | | EMP_ES10 | | | |
| 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_ES20 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=23 EMP_ES22 00808 8 N Maximum monthly employment in QTIME=24 EMP_ES23 00816 8 N Maximum monthly employment in QTIME=26 EMP_ES26 <t< td=""><td></td><td>EMP_ES11</td><td></td><td></td><td></td></t<> | | EMP_ES11 | | | |
| 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=23 EMP_ES22 00808 8 N Maximum monthly employment in QTIME=24 EMP_ES23 00816 8 N Maximum monthly employment in QTIME=25 EMP_ES26 00840 8 N Maximum monthly employment in QTIME=26 EMP_ES26 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<> | | | | | |
| 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=26 EMP_ES25 00832 8 N Maximum monthly employment in QTIME=27 EMP_ES26 <td< td=""><td></td><td>EMP_ES13</td><td>00736</td><td>8</td><td>N</td></td<> | | EMP_ES13 | 00736 | 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=27 EMP_ES26 00840 8 N Maximum monthly employment in QTIME=30 EMP_ES3 | | EMP_ES14 | 00744 | 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=28 EMP_ES27 00848 8 N Maximum monthly employment in QTIME=30 EMP_ES3 | | EMP_ES15 | 00752 | 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_ES28 00856 8 N Maximum monthly employment in QTIME=30 EMP_ES3 00656 8 N Maximum monthly employment in QTIME=31 EMP_ES31 | Maximum monthly employment in QTIME=16 | EMP_ES16 | 00760 | 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=3 EMP_ES30 00872 8 N Maximum monthly employment in QTIME=31 EMP_ES31 | Maximum monthly employment in QTIME=17 | EMP_ES17 | 00768 | 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=3 EMP_ES3 00656 8 N Maximum monthly employment in QTIME=31 EMP_ES31 00880 8 N Maximum monthly employment in QTIME=32 EMP_ES32 0 | | EMP_ES18 | 00776 | 8 | |
| 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_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=33 EMP_ES33 00896 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=19 | EMP_ES19 | 00784 | 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=3 EMP_ES3 00656 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 <td< td=""><td>Maximum monthly employment in QTIME=2</td><td>EMP_ES2</td><td>00648</td><td>8</td><td>N</td></td<> | Maximum monthly employment in QTIME=2 | EMP_ES2 | 00648 | 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=3 EMP_ES3 00656 8 N Maximum monthly employment in QTIME=30 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=20 | EMP_ES20 | 00792 | 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_ES25 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=33 EMP_ES33 00896 8 N Maximum monthly employment in QTIME=34 EMP_ES34 00904 8 N | Maximum monthly employment in QTIME=21 | EMP_ES21 | 00800 | 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_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=22 | EMP_ES22 | 00808 | 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=23 | EMP_ES23 | 00816 | 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=24 | EMP_ES24 | 00824 | 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=25 | EMP_ES25 | 00832 | 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=26 | EMP_ES26 | 00840 | 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=27 | EMP_ES27 | 00848 | 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=28 | EMP_ES28 | 00856 | 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=29 | EMP_ES29 | 00864 | 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=3 | EMP_ES3 | 00656 | 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=30 | EMP_ES30 | 00872 | 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=31 | EMP_ES31 | 00880 | 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=32 | EMP_ES32 | 00888 | 8 | N |
| Maximum monthly employment in QTIME=34 EMP_ES34 00904 8 N | | EMP_ES33 | 00896 | 8 | N |
| | | EMP_ES34 | 00904 | 8 | N |
| Maximum monthly employment in QTIME=35 EMP_ES35 00912 8 N | Maximum monthly employment in QTIME=35 | EMP_ES35 | 00912 | 8 | N |

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

| Field name | $\frac{HAPTER 4. EMPLOYN}{ Data dictionary}$ | 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=50 | EMP_ES51 | 01032 | 8 | N |
| Maximum monthly employment in QTIME=51 Maximum monthly employment in QTIME=52 | EMP_ES52 | 01048 | 8 | N |
| Maximum monthly employment in QTIME=53 | EMP_ES52 EMP_ES53 | 01048 | 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 | 01072 | 8 | N |
| Maximum monthly employment in QTIME=57 | EMP_ES57 | 01080 | 8 | N |
| Maximum monthly employment in QTIME=58 | EMP_ES58 | 01088 | 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=63 Maximum monthly employment in QTIME=64 | EMP_ES64 | 01144 | 8 | N |
| Maximum monthly employment in QTIME=65 | EMP_ES65 | 01144 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 | 01176 | 8 | N |
| Maximum monthly employment in QTIME=09 Maximum monthly employment in QTIME=7 | EMP_ES7 | 00688 | 8 | N |
| Maximum monthly employment in QTIME=7 | EMP_ES7 EMP_ES70 | 01192 | 8 | N |
| Maximum monthly employment in QTIME=70 Maximum monthly employment in QTIME=71 | | 01200 | 8 | N N |
| | EMP_ES71 | 01200 | 8 | |
| Maximum monthly employment in QTIME=72 | EMP_ES72 | | 8 | N |
| Maximum monthly employment in QTIME=73 | EMP_ES73 | 01216 | 8 | N |
| Maximum monthly employment in QTIME=74 | EMP_ES74 | 01224 | | N 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 |

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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 | 00184 | 8 | N |
| Month 1 employment in QTIME=25 | BPEMP_ES25 | 00194 | 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 | 00208 | 8 | N |
| Month 1 employment in QTIME=29 | | 00210 00224 | 8 | N |
| | BPEMP_ES29 | | 8 | |
| Month 1 employment in QTIME=3 | BPEMP_ES3 | 00016 | | 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=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=51 Month 1 employment in QTIME=52 | BPEMP_ES52 | 00408 | 8 | N |
| Month 1 employment in QTIME=52 Month 1 employment in QTIME=53 | BPEMP_ES53 | 00408 | 8 | N |
| MORER I employment in QIIME=95 | DEEMETE299 | 00410 | 0 | 1/ |

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| | 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 | 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 | \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 |
| | | | | |

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

| Field name | | Stanting | Field | Data |
|--|--------------------------------|-------------------|--------|-------------|
| rieid name | Data dictionary reference name | Starting position | size | type |
| Number of establishments in QTIME=27 | NUMRUNS27 | 01488 | Size 8 | l type N |
| Number of establishments in QTIME=28 Number of establishments in QTIME=28 | NUMRUNS28 | 01496 | 8 | N N |
| Number of establishments in QTIME=29 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=30 Number of establishments in QTIME=31 | NUMRUNS31 | 01512 01520 | 8 | N |
| Number of establishments in QTIME=31 Number of establishments in QTIME=32 | NUMRUNS31 | 01520 01528 | 8 | N N |
| Number of establishments in QTIME=32 Number of establishments in QTIME=33 | | 01536 | 8 | N |
| Number of establishments in QTIME=34 | NUMRUNS33 NUMRUNS34 | 01530 01544 | 8 | N N |
| Number of establishments in QTIME=35 Number of establishments in QTIME=35 | NUMRUNS35 | 01544 01552 | 8 | N N |
| | | 01560 | 8 | N |
| Number of establishments in QTIME=36 | NUMRUNS36 | | 8 | N |
| Number of establishments in QTIME=37 | NUMRUNS37 | 01568 | 8 | |
| Number of establishments in QTIME=38 | NUMRUNS38 | 01576 | | N |
| Number of establishments in QTIME=39 | NUMRUNS39 | 01584 | 8 8 | N N |
| Number of establishments in QTIME=4 | NUMRUNS4 | 01304 | | N |
| Number of establishments in QTIME=40 | NUMRUNS40 | 01592 | 8 | N |
| Number of establishments in QTIME=41 | NUMRUNS41 | 01600 | 8 8 | N N |
| Number of establishments in QTIME=42 | NUMRUNS42 | 01608 | | |
| 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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| 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 |

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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=33 in QTIME=31 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=34 in QTIME=35 in QTIME=36 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=39 in QTIME=38 in QTIME=39 in QTIME=38 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=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=19 in QTIME=19 in QTIME=20 in QTIME=20 in QTIME=21 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=24 in QTIME=25 in QTIME=24 in QTIME=25 in QTIME=25 in QTIME=26 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=31 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=35 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=31 in QTIME=34 in QTIME=35 in QTIME=31 in QTIME=33 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=38 in QTIME=39 in QTIME=39 | 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=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=29 in QTIME=29 in QTIME=29 in QTIME=29 in QTIME=20 in QTIME=21 in QTIME=25 in QTIME=26 in QTIME=31 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 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=37 in QTIME=38 in QTIME=38 in QTIME=38 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=30 in QTIME=31 in QTIME=30 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=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=36 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=40 | 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=29 in QTIME=21 in QTIME=21 in QTIME=22 ESTABS_ES2 in QTIME=21 in QTIME=21 ESTABS_ES2 in QTIME=21 ESTABS_ES2 in QTIME=22 ESTABS_ES2 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=28 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=30 in QTIME=31 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=35 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=36 in QTIME=37 in QTIME=38 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 QTIME=4 | in QTIME=14 | ESTABS_ES14 | 01384 | 8 | N |
| 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=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_ES26 01480 8 N in QTIME=28 ESTABS_ES27 01488 8 N in QTIME=30 ESTABS_ES3 01296 8 N in QTIME=31 ESTABS_ES3 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=36 in QTIME=37 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=44 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 8 N in QTIME=33 ESTABS_ES33 01536 8 | • | 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_ES29 01504 8 N in QTIME=31 ESTABS_ES30 01512 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=27 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=32 in QTIME=32 in QTIME=33 in QTIME=33 in QTIME=33 in QTIME=34 in QTIME=34 in QTIME=35 in QTIME=34 in QTIME=36 in QTIME=36 in QTIME=36 in QTIME=37 in QTIME=36 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=39 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=32 in QTIME=33 in QTIME=33 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=34 ESTABS_ES33 01536 8 N in QTIME=35 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_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_ES30 01512 8 N in QTIME=31 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=39 ESTABS_ES38 01576 8 N <td></td> <td>ESTABS_ES21</td> <td>01440</td> <td></td> <td></td> | | 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=37 ESTABS_ES37 01568 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_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N | | 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_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_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 |

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

| | HAPTER 4. EMPLOYME | | Field | |
|--|--------------------------------|-------------------|-------|--------------|
| Field name | Data dictionary reference name | Starting position | size | Data type |
| in QTIME=42 | ESTABS_ES42 | 01608 | 8 | N |
| in QTIME=43 | ESTABS_ES43 | 01616 | 8 | N |
| in QTIME=44 | ESTABS_ES44 | 01616 | 8 | N |
| in QTIME=45 | ESTABS_ES45 | 01624 01632 | 8 | N |
| in QTIME=46 | ESTABS_ES46 | 01632 01640 | 8 | N |
| in QTIME=40 | ESTABS_ES47 | 01648 | 8 | N |
| in QTIME=48 | | 01048 01656 | 8 | N |
| • | ESTABS_ES48 | 01664 | 8 | N N |
| in QTIME=49 in QTIME=5 | ESTABS_ES49 | 01004 01312 | 8 | N N |
| • | ESTABS_ES5 | | 8 | N N |
| in QTIME=50 | ESTABS_ES50 | 01672 | 8 | |
| in QTIME=51 | ESTABS_ES51 | 01680 | | 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 | N |
| in QTIME=63 | ESTABS_ES63 | 01776 | 8 | N |
| in QTIME=64 | ESTABS_ES64 | 01784 | 8 | N |
| in QTIME=65 | ESTABS_ES65 | 01792 | 8 | 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 | N |
| in QTIME=73 | ESTABS_ES73 | 01856 | 8 | 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 | 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 |
| | | | | |

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| Field name | Deta diationary | C+c-+: | Field | Data |
|---|--------------------------------|-------------------|-------|--------|
| rieid name | Data dictionary reference name | Starting position | size | |
| Maximum monthly employment in QTIME=11 | EMP_ES11 | 00720 | 8 | type |
| Maximum monthly employment in QTIME=11 Maximum monthly employment in QTIME=12 | EMP_ES11 EMP_ES12 | 00728 | 8 | N |
| Maximum monthly employment in QTIME=13 | EMP_ES12 EMP_ES13 | 00726 | 8 | N |
| Maximum monthly employment in QTIME=13 Maximum monthly employment in QTIME=14 | EMP_ES13 EMP_ES14 | 00730 | 8 | N |
| Maximum monthly employment in QTIME=14 Maximum monthly employment in QTIME=15 | EMP_ES14 EMP_ES15 | 00744 00752 | 8 | N |
| · - · · · · · | EMP_ES15 EMP_ES16 | 00752 | 8 | N |
| Maximum monthly employment in QTIME=16 Maximum monthly employment in QTIME=17 | EMP_ES17 | 00760 | 8 | N N |
| v 1 v . | EMP_ES17 EMP_ES18 | 00708 | 8 | N N |
| Maximum monthly employment in QTIME=18 Maximum monthly employment in QTIME=19 | EMP_ES18 EMP_ES19 | 00778 | 8 | N N |
| Maximum monthly employment in QTIME=19 Maximum monthly employment in QTIME=2 | EMP_ES19 EMP_ES2 | 00784 | 8 | N |
| Maximum monthly employment in QTIME=2 Maximum monthly employment in QTIME=20 | EMP_ES2 EMP_ES20 | 00048 00792 | 8 | N |
| · - · · · · · | EMP_ES20 EMP_ES21 | 00792 | 8 | N |
| Maximum monthly employment in QTIME=21 | | 00800 | 8 | N N |
| Maximum monthly employment in QTIME=22 | EMP_ES22 | | | |
| 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 | $00832 \\ 00840$ | 8 | N |
| Maximum monthly employment in QTIME=26 | EMP_ES26 | | 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 |
| 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 |
| | | | | |

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| | HAPTER 4. EMPLOY | | | |
|--|-------------------------|----------------|--------|------|
| Field name | Data dictionary | Starting | Field | Data |
| Maximum monthly employment in QTIME=57 | reference name EMP_ES57 | position 01088 | size 8 | type |
| v 1 v . | | 01088 | | |
| Maximum monthly employment in QTIME=58 | EMP_ES58 | 01096 | 8 8 | N |
| Maximum monthly employment in QTIME=59 | EMP_ES59 | | 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 | | N |
| Maximum monthly employment in QTIME=62 | EMP_ES62 | 01128 | 8 | N |
| Maximum monthly employment in QTIME=63 | EMP_ES63 | 01136 | 8 8 | N |
| Maximum monthly employment in QTIME=64 | EMP_ES64 | 01144 | 8 | N |
| Maximum monthly employment in QTIME=65 | EMP_ES65 | 01152 | | 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 | 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 | 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 |
| | | | | |

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| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------------------|---------------|-------|------|
| r icid mame | 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_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 | 00344 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 | 00370 | 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=51 Month 1 employment in QTIME=52 | BPEMP_ES52 | 00408 | 8 | N |
| Month 1 employment in QTIME=52 Month 1 employment in QTIME=53 | BPEMP_ES53 | 00408 | 8 | N |
| Month 1 employment in QTIME=54 | BPEMP_ES54 | 00410 | 8 | N |
| Month 1 employment in QTIME=54 Month 1 employment in QTIME=55 | BPEMP_ES55 | 00424 00432 | 8 | N |
| Month 1 employment in QTIME=56 Month 1 employment in QTIME=56 | BPEMP_ES56 | 00432 | 8 | N |
| Month 1 employment in QTIME=57 | BPEMP_ES57 | 00448 | 8 | N |
| Month 1 employment in QTIME=57 Month 1 employment in QTIME=58 | BPEMP_ES58 | 00448 | 8 | N |
| Month 1 employment in QTIME=59 | BPEMP_ES59 | 00464 | 8 | N |
| Month 1 employment in QTIME=59 Month 1 employment in QTIME=6 | BPEMP_ES6 | 00040 | 8 | N |
| Month 1 employment in QTIME=60 | BPEMP_ES60 | 0040 00472 | 8 | N |
| Month 1 employment in QTIME=60 Month 1 employment in QTIME=61 | | 00472 | 8 | N |
| - v - | BPEMP_ES61 | 00480 | | |
| Month 1 employment in QTIME=62 | BPEMP_ES 62 BPEMP_ES 63 | 00488 | 8 | N |
| Month 1 employment in QTIME=63 | | | 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_ES72 | 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 |
| | | | | |

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| 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 |

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF) 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 |

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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 | None | |
| ID | 1990 UI data has firm identifier problems on approximately 40% of the records. Because of these problems, this year is not included in the EHF. | Researchers should generally avoid use of 1990 ID 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 employment 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 | |
| МО | $1994{:}4$ 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 | | |
| | | (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 | |

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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 Groupl'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.

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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.

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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.

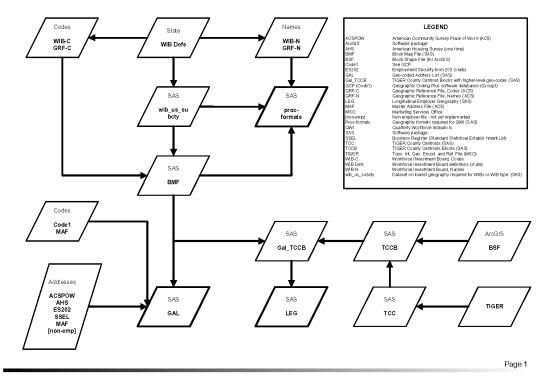
Geographic vintage The release date (year) of the GRF identifies the geographic vintage. In the GAL the vintage becomes the variable a_vintage.

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.

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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

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| | Typical | |
|--------------|---------|---|
| Value | Percent | Meaning |
| \mathbf{C} | 12.20 | Code1, or the address matches an address for |
| | | which Code1 supplied the block code |
| ${ m M}$ | 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:

```
a_ssccc FIPS-state(2)||FIPS-county (3)
a_st FIPS state (2)
a_cty FIPS county within the state (3)
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 |

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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 |
| \mathbf{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.

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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,

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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

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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.

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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 |

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

| 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 | 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 | 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

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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 |
|-------------------------------------|-------------|----|---------|------------|----------|-------|------|
| | | | referen | ce 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 | | | B2000 | | 00039 | 1 | A/N |
| Address on SSEL $2001 = 1$; else=0 | | | B2001 | | 00040 | 1 | A/N |
| Tracking ID | | | BIGSRO | CID | 00331 | 26 | A/N |
| Unique GAL | address | ID | GALID | | 00000 | 29 | A/N |
| A—YYYYMMDD_HHMM_ST——nnnnnnnnnn | | | | | | | |
| Source file of this address | | | SRCMA | ST | 00027 | 5 | A/N |

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5.3.6 Auxiliary dataset: GAL_ZZ_2003_ES202ONLY

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

| | reference name C1_ZIP | position 00457 | size 5 | type |
|------------------------------------|-----------------------|----------------|--------|-------|
| | | 00457 | 5 | A /NT |
| o | | | | 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_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_UNDATA | 00276 | 35 | A/N |
| Vality unhandled pattern | V_UNPATT | 00256 | 20 | A/N |
| Vality unit value | $V_{-}UVAL$ | 00165 | 10 | A/N |

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CHAPTER~5.~~GEO-CODED~ADDRESS~LIST~(GAL)

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 |

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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 |

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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 name | Data dictionary | Starting | Field | Data |
|------------|------------|-----------------|----------|-------|------|
| | | reference name | position | size | type |
| | | CONTROL | 00033 | 13 | A/N |
| Address ID | | GALID | 00000 | 29 | A/N |
| Year YYYY | | YEAR | 00029 | 4 | A/N |

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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.

 $\textbf{Record identifier:} \ \ cfn, \ year \ singmult$

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 |

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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

| Field name | Data dictionary | Starting | Field | Data |
|--------------------------------|-----------------|----------|-------|------|
| | reference name | position | size | type |
| Address ID | GALID | 00000 | 29 | A/N |
| P=physical,M=mailing | E_FLAG | 00046 | 1 | A/N |
| Quarter (numeric) | QUARTER | 00050 | 3 | N |
| State Employer ID Number | SEIN | 00029 | 12 | A/N |
| State UI Reporting Unit Number | SEINUNIT | 00041 | 5 | A/N |
| Year YYYY | YEAR | 00047 | 3 | N |

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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 |

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5.4 PROGRAMS

5.4.1 Separating Title 26 information

```
/* Time-stamp: <06/10/07 20:50:46 vilhuber> */
             /* $Id: split_gal_t26.tex 417 2011-04-13 20:47:13Z 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);
```

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 $\overline{5.5}$ NOTES

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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.

6.1.1 Age and sex imputation

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.¹

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

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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 $i \in EHF$.

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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:

icf/ZZ/ for most files icft26/ZZ for files with Title 26 protected content

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 |

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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 | 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 | $\dot{A/N}$ |
| 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 | | 0000- | | |
| Number of SIPP Panels where this PIK is found | COUNT_SIPPPANEL | S 00051 | 3 | N |
| Numident variable=gender | SEX | 00081 | 1 | A/N |
| POB foreign indicator | POBFIN | 00102 | 1 | A/N |
| Pik duplicated across years, mapped to multiple CPS | CPSDUPIKCY | 00024 | 3 | N |
| IDs, different years | OI SDOI IKO I | 00024 | 0 | 11 |
| Pik duplicated within year, mapped to multiple CPS | CPSDUPIK1 | 00027 | 3 | N |
| IDs, single year | CESDUFIKI | 00021 | 3 | 11 |
| Pik duplicated within year, mapped to multiple CPS | CPSDUPIK2 | 00030 | 3 | N |
| IDs, single year | CPSDUPIK2 | 00030 | 3 | 11 |
| Protected Identification Key | DIIZ | 00072 | 0 | A /NT |
| SAS Date Value Date of Death | PIK | | 9 8 | A/N |
| SIPP PANEL of first INTID | DOD | 00008 | 3 | N |
| | PANELSIPP1 | 00057 | | 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 |
| | | | | |

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6.2.5 Age and sex implicates: ICF_zz_implicates_age_sex

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 | 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 | 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 | A/N |
| Protected Identification Key | PIK | 00072 | 9 | A/N |

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Residence implicates: ICF_zz_implicates_county $\overline{6.2.6}$

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 |

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6.2.7 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 |

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 |

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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 | | Group | 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 2003Q4 |
| Colorado | CO | icf | 1 | 6,729,548 | 858.27 | 1990Q1 | 2004Q1 |
| Colorado | CO | icft26 | 1 | 6,729,548 | 541.36 | 1990Q1 | 2004Q1 2004Q1 |
| Delaware | DE | icf | 1 | 806,071 | 103.29 | 1998Q3 | 2004Q1 2004Q1 |
| Delaware | DE | icft26 | 1 | 806,071 | 66.38 | 1998Q3 | 2004Q1 2004Q1 |
| Florida | $_{ m FL}$ | icf | 1 | 18,252,091 | 2,320.04 | 1993Q3 1992Q4 | 2004Q1 2004Q1 |
| Florida | $_{ m FL}$ | icft26 | 1 | 18,252,091 | 1,461.77 | 1992Q4 1992Q4 | 2004Q1 2004Q1 |
| Iowa | IA | icf | 1 | | 321.18 | 1992Q4 1998Q4 | - |
| | | | | 2,505,678 | | 1998Q4 1998Q4 | 2004Q1 |
| Iowa Idaho | IA ID | icft26 icf | 1 1 | 2,505,678 | 208.41 | 1998Q4 1990Q1 | 2004Q1 |
| | ID ID | | | 1,730,508 | 221.52 | • | 2004Q1 |
| Idaho | | icft26 icf | 1 | 1,730,508 | 140.14 | 1990Q1 | 2004Q1 |
| Illinois | IL | | 1 | 13,875,529 | 1,767.07 | 1990Q1 | 2004Q1 |
| Illinois | IL | icft26 | 1 | 13,875,529 | 1,121.48 | 1990Q1 | 2004Q1 |
| Indiana | IN | icf | 1 | 6,810,867 | 873.73 | 1990Q1 | 2004Q1 |
| Indiana | IN | icft26 | 1 | 6,810,867 | 563.23 | 1990Q1 | 2004Q1 |
| Kansas | KS | icf | 1 | 3,897,988 | 498.09 | 1990Q1 | 2004Q1 |
| Kansas | KS | icft26 | 1 | 3,897,988 | 315.27 | 1990Q1 | 2004Q1 |
| 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 | 1 | 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 | MT | 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) |

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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 |

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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 417 2011-04-13 20:47:13Z 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;
```

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6.4 NOTES

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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.

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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 | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|---|--------------------|------------------|----------|------------|
| rieid name | reference name | position | size | type |
| Accessions for Female and age 14-18 | A_A2A01 | 01880 | 4 | N |
| Accessions for Female and age 14-19 | 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 25-54 Accessions for Female and age 35-44 | A_A2A04 A_A2A05 | 01918 | 4 | N |
| Accessions for Female and age 45-54 | A_A2A06 | 01940 | 4 | N |
| Accessions for Female and age 45-04 Accessions for Female and age 55-64 | A_A2A00 A_A2A07 | 01952 | 4 | N |
| Accessions for Female and age 65-99 | A_A2A07 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 14-19 | A_A0A00 | 01860 | 4 | N |
| Accessions for Male and Female and age 19-21 | A_A0A02 | 01884 | 4 | N |
| Accessions for Male and Female and age 22-24 | A_A0A02 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_A0A04 A_A0A05 | 01908 | 4 | N |
| Accessions for Male and Female and age 45-54 | A_A0A06 | 01920 01932 | 4 | N |
| Accessions for Male and Female and age 45-54 Accessions for Male and Female and age 55-64 | A_A0A07 | 01932 | 4 | N |
| Accessions for Male and Female and age 65-99 | A_A0A07 A_A0A08 | 01944 01956 | 4 | N N |
| Accessions for Male and age 14-18 | A_A1A01 | 01876 | 4 | N |
| Accessions for Male and age 14-18 Accessions for Male and age 14-99 | A_A1A01 A_A1A00 | 01864 | 4 | N |
| ~ | A_A1A00 A_A1A02 | 01888 | | N |
| Accessions for Male and age 19-21 | | | 4 | N N |
| Accessions for Male and age 22-24 | A_A1A03 | 01900 | 4 | |
| Accessions for Male and age 25-34 | A_A1A04 | 01912 | 4 | N N |
| Accessions for Male and age 35-44 | A_A1A05 A_A1A06 | $01924 \\ 01936$ | 4 | N N |
| Accessions for Male and age 45-54 Accessions for Male and age 55-64 | A_A1A00 A_A1A07 | 01948 | $4 \\ 4$ | N |
| Accessions for Male and age 65-99 | A_A1A07 A_A1A08 | 01948 | 4 | N |
| ~ | BDOT_A2A01 | 05120 | | N |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A01 | 03120 | 4 | IN |
| pression for Female and | DDOT 49400 | 05100 | 1 | N |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A00 | 05108 | 4 | IN |
| pression for Female and | DD 07 40 400 | 05120 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | $BDOT_A2A02$ | 05132 | 4 | N |
| pression for Female and | DD 07 40 40 2 | 07144 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A03 | 05144 | 4 | N |
| pression for Female and | BDOT_A2A04 | 05156 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A04 | 05156 | 4 | N |
| pression for Female and | DD 07 40 40 f | 07160 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | $BDOT_A2A05$ | 05168 | 4 | N |
| pression for Female and | DD 07 4040C | 05100 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A06 | 05180 | 4 | N |
| pression for Female and | DD 07 40 40 7 | 05100 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | $BDOT_A2A07$ | 05192 | 4 | N |
| pression for Female and | DD 07 40 400 | 05004 | 4 | NT |
| Alternate definition of B that does not reflect flow sup- | BDOT_A2A08 | 05204 | 4 | N |
| pression for Female and | DDOM 40401 | 07110 | A | TN T |
| Alternate definition of B that does not reflect flow sup- | BDOT_A0A01 | 05112 | 4 | N |
| pression for Male and Fe | DDOM 40400 | 05100 | A | N T |
| Alternate definition of B that does not reflect flow sup- | BDOT_A0A00 | 05100 | 4 | N |
| pression for Male and Fe | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|--|-------------------|------------------|-------|--------------|
| гин паше | 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 | | 00_00 | _ | |
| 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- | 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- | 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 | | | | |
| Alternate definition of B that does not reflect flow sup- | BDOT_A1A08 | 05200 | 4 | N |
| pression for Male and ag | 10101 | 0.5000 | | 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 | TDOT 1210 | 05240 | 1 | N |
| Alternate definition of E that does not reflect flow sup- | EDOT_A2A02 | 05240 | 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 | EDOT_A2A05 | 09292 | 4 | IN |
| Alternate definition of E that does not reflect flow sup- | EDOT_A2A04 | 05264 | 4 | N |
| pression for Female and | EDOT_AZA04 | 05204 | 4 | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A2A05 | 05276 | 4 | N |
| pression for Female and | ED0121121100 | 00210 | - | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A2A06 | 05288 | 4 | N |
| pression for Female and | LD0121121100 | 00200 | 1 | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A2A07 | 05300 | 4 | N |
| pression for Female and | | 23300 | * | -, |
| Alternate definition of E that does not reflect flow sup- | $EDOT_A2A08$ | 05312 | 4 | N |
| pression for Female and | | ~~~ ~ | _ | |
| • | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|---|------------------|----------|-------|------|
| -1. | 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 | TD 07 40400 | 0,500 | 4 | NT |
| Alternate definition of E that does not reflect flow suppression for Male and Fe | EDOT_A0A00 | 05208 | 4 | N |
| Alternate definition of E that does not reflect flow sup- | EDOT_A0A02 | 05232 | 4 | N |
| pression for Male and Fe | EDU1_AUAU2 | 00232 | 4 | IN |
| Alternate definition of E that does not reflect flow sup- | EDOT_A0A03 | 05244 | 4 | N |
| pression for Male and Fe | ED012101100 | 00244 | - | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A0A04 | 05256 | 4 | N |
| pression for Male and Fe | | 33_33 | _ | |
| 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 | | | | |
| Alternate definition of E that does not reflect flow sup- | $EDOT_A0A07$ | 05292 | 4 | N |
| pression for Male and Fe | | | | |
| Alternate definition of E that does not reflect flow sup- | $EDOT_A0A08$ | 05304 | 4 | N |
| pression for Male and Fe | | | | |
| Alternate definition of E that does not reflect flow sup- | EDOT_A1A01 | 05224 | 4 | N |
| pression for Male and ag | | | | |
| Alternate definition of E that does not reflect flow sup- | EDOT_A1A00 | 05212 | 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 | 4.1.4.00 | 05040 | 4 | 3.7 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A1A03 | 05248 | 4 | N |
| pression for Male and ag Alternate definition of E that does not reflect flow sup- | EDOT_A1A04 | 05260 | 4 | N |
| pression for Male and ag | EDUI_AIAU4 | 05200 | 4 | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A1A05 | 05272 | 4 | N |
| pression for Male and ag | EDOT_MIMOS | 00212 | 4 | 11 |
| Alternate definition of E that does not reflect flow sup- | EDOT_A1A06 | 05284 | 4 | N |
| pression for Male and ag | | 00201 | - | 1, |
| 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 | TD 0 T A 0 A 0 A | 05050 | 4 | ът. |
| Alternate definition of F that does not reflect flow sup- | FDOT_A2A04 | 05372 | 4 | N |
| pression for Female and Alternate definition of E that does not reflect flow our | EDOM ASAOF | 05204 | A | TN.T |
| Alternate definition of F that does not reflect flow sup- pression for Female and | FDOT_A2A05 | 05384 | 4 | N |
| Alternate definition of F that does not reflect flow sup- | FDOT_A2A06 | 05396 | 4 | N |
| pression for Female and | FDU1_A2AUU | 09990 | 4 | IN |
| problem for remare and | | | | |

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

| CHALLER 7. QUARTEREL WORL | | | | |
|---|----------------------|----------|-------|--------------|
| Field name | Data dictionary | Starting | Field | Data |
| A1 1.6 | 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_A2A08 | 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 | 1201210100 | 00002 | 1 | 1, |
| Alternate definition of F that does not reflect flow sup- | FDOT_A0A04 | 05364 | 4 | N |
| pression for Male and Fe | FD01_A0A04 | 05504 | 4 | 11 |
| | TDOT 40405 | 05276 | 4 | N.T |
| Alternate definition of F that does not reflect flow sup- | $FDOT_A0A05$ | 05376 | 4 | N |
| pression for Male and Fe | 10100 | 05000 | , | 3.7 |
| Alternate definition of F that does not reflect flow sup- | $FDOT_A0A06$ | 05388 | 4 | N |
| pression for Male and Fe | | | | |
| Alternate definition of F that does not reflect flow sup- | FDOT_ $A0A07$ | 05400 | 4 | N |
| pression for Male and Fe | | | | |
| Alternate definition of F that does not reflect flow sup- | $FDOT_A0A08$ | 05412 | 4 | N |
| pression for Male and Fe | | | | |
| Alternate definition of F that does not reflect flow sup- | FDOT_A1A01 | 05332 | 4 | N |
| pression for Male and ag | | | | |
| Alternate definition of F that does not reflect flow sup- | FDOT_A1A00 | 05320 | 4 | N |
| pression for Male and ag | | | | |
| Alternate definition of F that does not reflect flow sup- | $FDOT_A1A02$ | 05344 | 4 | N |
| pression for Male and ag | 12012111102 | 00011 | - | |
| Alternate definition of F that does not reflect flow sup- | FDOT_A1A03 | 05356 | 4 | N |
| pression for Male and ag | 15012111100 | 00000 | - | 11 |
| Alternate definition of F that does not reflect flow sup- | FDOT_A1A04 | 05368 | 4 | N |
| pression for Male and ag | FD01_A1A04 | 09900 | 4 | 11 |
| | 77 07 A 1 A 07 | 05200 | 4 | N.T |
| Alternate definition of F that does not reflect flow sup- | FDOT_A1A05 | 05380 | 4 | N |
| pression for Male and ag | 1.1.1.0.0 | 05000 | , | 3.7 |
| 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 | AR_A2A01 | 01988 | 4 | \mathbf{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 | 02012 | 4 | N |
| Average accession rate for Female and age 35-44 | AR_A2A05 | 02024 | 4 | N |
| Average accession rate for Female and age 45-54 | AR_A2A06 | 02030 | 4 | N |
| | AR_A2A00 AR_A2A07 | | | |
| Average accession rate for Female and age 55-64 | | 02060 | 4 | N |
| Average accession rate for Female and age 65-99 | AR_A2A08 | 02072 | 4 | N |
| | | | | |

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

| 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 | ARA0A00 | 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 | ARA0A07 | 02052 | 4 | N |
| Average accession rate for Male and Female and age 65-99 | ARA0A08 | 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 | $\stackrel{\cdot}{4}$ | 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 | $\overline{4}$ | N |
| Average employment for Male and Female and age 14- 18 | EBAR_A0A01 | 00576 | $\overline{4}$ | 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 35-44 | EBAR_A0A05 | 00624 | 4 | N |
| Average employment for Male and Female and age 45-54 | EBAR_A0A06 | 00636 | 4 | N |

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| CHAPTER 7. QUARTERLY WORK Field name | 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 |

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

| 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 Female and age 55-64 | FG_A2A07 | 01412 | 4 | N |
| Average full-quarter employment growth rate for Female and age 65-99 | FG_A2A08 | 01424 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 14-18 | FG_A0A01 | 01332 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 14-99 | FG_A0A00 | 01320 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 19-21 | FG_A0A02 | 01344 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 22-24 | FG_A0A03 | 01356 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 25-34 | FG_A0A04 | 01368 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 35-44 | FG_A0A05 | 01380 | 4 | N |
| Average full-quarter employment growth rate for Male and Female and age 45-54 | FG_A0A06 | 01392 | 4 | N |
| and remain and ago 40-04 | | | | |

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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 |
| Average full-quarter employment growth rate for Male | FG_A0A07 | 01404 | 4 | N |
| and Female and age 55-64 | | | | |
| Average full-quarter employment growth rate for Male and Female and age 65-99 | FG_A0A08 | 01416 | 4 | N |
| Average full-quarter employment growth rate for Male and age 14-18 | FG_A1A01 | 01336 | 4 | N |
| Average full-quarter employment growth rate for Male and age 14-99 | FG_A1A00 | 01324 | 4 | N |
| Average full-quarter employment growth rate for Male and age 19-21 | FG_A1A02 | 01348 | 4 | N |
| Average full-quarter employment growth rate for Male and age 22-24 | FG_A1A03 | 01360 | 4 | N |
| Average full-quarter employment growth rate for Male and age 25-34 | FG_A1A04 | 01372 | 4 | N |
| 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 | FJCR_A2A04 | 01592 | 4 | N |
| age 25-34 Average full-quarter job creation rate for Female and | $FJCR_A2A05$ | 01604 | 4 | N |
| age 35-44 Average full-quarter job creation rate for Female and | FJCR_A2A06 | 01616 | 4 | N |
| age 45-54 Average full-quarter job creation rate for Female and | FJCR_A2A07 | 01628 | 4 | N |
| age 55-64 Average full-quarter job creation rate for Female and | FJCR_A2A08 | 01640 | 4 | N |
| age 65-99 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 Female and age 19-21 | FJCR_A0A02 | 01560 | 4 | N |
| Average full-quarter job creation rate for Male and Female and age 22-24 | FJCR_A0A03 | 01572 | 4 | N |
| Average full-quarter job creation rate for Male and Female and age 25-34 | FJCR_A0A04 | 01584 | 4 | N |
| Female and age 22-24 Average full-quarter job creation rate for Male and | | | | |

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

| CHAPTER 7. QUARTERLY WORKFORCE INDICA | | · · · | E: 11 | D. |
|--|--------------------------------|-------------------|---------------|--------------|
| 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 | DICD ASAST | 04.000 | | 3.7 |
| Average full-quarter job creation rate for Male and | FJCR_A0A07 | 01620 | 4 | N |
| Female and age 55-64 Average full-quarter job creation rate for Male and | FJCR_A0A08 | 01632 | 4 | N |
| Female and age 65-99 | 130102101100 | 01032 | 4 | 11 |
| Average full-quarter job creation rate for Male and age | FJCR_A1A01 | 01552 | 4 | N |
| 14-18 | | | | |
| Average full-quarter job creation rate for Male and age | FJCR_A1A00 | 01540 | 4 | N |
| 14-99 | DIOD 11100 | 01504 | 4 | 7. T |
| Average full-quarter job creation rate for Male and age | FJCR_A1A02 | 01564 | 4 | N |
| 19-21 Average full-quarter job creation rate for Male and age | FJCR_A1A03 | 01576 | 4 | N |
| 22-24 | 130102/11/103 | 01070 | 4 | 11 |
| Average full-quarter job creation rate for Male and age | FJCR_A1A04 | 01588 | 4 | N |
| 25-34 | | | | |
| Average full-quarter job creation rate for Male and age | FJCR_A1A05 | 01600 | 4 | N |
| 35-44 | DIOD A1A00 | 01.61.0 | 4 | 7. T |
| Average full-quarter job creation rate for Male and age 45-54 | FJCR_A1A06 | 01612 | 4 | N |
| Average full-quarter job creation rate for Male and age | FJCR_A1A07 | 01624 | 4 | N |
| 55-64 | 1 50102111101 | 01024 | - | 11 |
| 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 | EIDD AGAGG | 01700 | 4 | N.T. |
| Average full-quarter job destruction rate for Female and age 14-99 | FJDR_A2A00 | 01760 | 4 | N |
| Average full-quarter job destruction rate for Female | FJDR_A2A02 | 01784 | 4 | N |
| and age 19-21 | 1021021102 | 01.01 | - | |
| Average full-quarter job destruction rate for Female | $FJDR_A2A03$ | 01796 | 4 | N |
| and age 22-24 | | | | |
| Average full-quarter job destruction rate for Female | FJDR_A2A04 | 01808 | 4 | N |
| and age 25-34 Average full-quarter job destruction rate for Female | FJDR_A2A05 | 01990 | 4 | N |
| and age 35-44 | FJDR_A2A05 | 01820 | 4 | N |
| Average full-quarter job destruction rate for Female | FJDR_A2A06 | 01832 | 4 | N |
| and age 45-54 | | 0-00- | | |
| Average full-quarter job destruction rate for Female | $FJDR_A2A07$ | 01844 | 4 | N |
| and age 55-64 | | | | |
| 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 JDR_AUAUI | 01704 | 4 | IN |
| Average full-quarter job destruction rate for Male and | FJDR_A0A00 | 01752 | 4 | N |
| Female and age 14-99 | 2-2-0 | ~~ - | _ | |
| Average full-quarter job destruction rate for Male and | $FJDR_A0A02$ | 01776 | 4 | N |
| Female and age 19-21 | | | | |
| | | | | |

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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 | EIDB AGAGA | 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_A0A05 | 01812 | 4 | IN |
| Average full-quarter job destruction rate for Male and | FJDR_A0A06 | 01824 | 4 | N |
| Female and age 45-54 | FJDR_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 | 01030 | 4 | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A0A08 | 01848 | 4 | N |
| Female and age 65-99 | I JDIC_AUAU0 | 01040 | 4 | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A1A01 | 01768 | 4 | N |
| age 14-18 | 1 31111111111 | 01700 | 4 | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A1A00 | 01756 | 4 | N |
| age 14-99 | 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 01100 | - | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A1A02 | 01780 | 4 | N |
| age 19-21 | 1 3 D 10 - 11 11 10 2 | 01100 | 7 | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A1A03 | 01792 | 4 | N |
| age 22-24 | 1 02102111100 | 01102 | 1 | 11 |
| Average full-quarter job destruction rate for Male and | FJDR_A1A04 | 01804 | 4 | N |
| age 25-34 | 1 02 10211110 1 | 01001 | - | |
| Average full-quarter job destruction rate for Male and | FJDR_A1A05 | 01816 | 4 | N |
| age 35-44 | _ 0 _ 10_1 | 0_0_0 | | |
| 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 | 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 | $\rm JCR_A2A02$ | 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 | 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 | 0 0 10 11 0 11 0 1 | 00.02 | 1 | 11 |
| Average job creation rate for Male and Female and age | JCR_A0A00 | 00780 | 4 | N |
| 14-99 | 3 01021101100 | 00.00 | - | |
| Average job creation rate for Male and Female and age | JCR_A0A02 | 00804 | 4 | N |
| 19-21 | | 55551 | - | |
| Average job creation rate for Male and Female and age | JCR_A0A03 | 00816 | 4 | N |
| 22-24 | | 23013 | - | |
| Average job creation rate for Male and Female and age | JCR_A0A04 | 00828 | 4 | N |
| 25-34 | - | | | |
| | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------|----------|----------|--------|
| Arrana ma iah amaatian mata far M-1 1 D 1 | reference name | position | size | type N |
| Average job creation rate for Male and Female and age 35-44 | JCR_A0A05 | 00840 | 4 | IN |
| Average job creation rate for Male and Female and age | JCR_A0A06 | 00852 | 4 | N |
| 45-54 | 0.01021101100 | 00002 | - | 11 |
| Average job creation rate for Male and Female and age | JCR_A0A07 | 00864 | 4 | N |
| 55-64 | | | | |
| Average job creation rate for Male and Female and age | JCR_A0A08 | 00876 | 4 | N |
| 65-99 | | | | |
| 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 | 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 | 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 |
| Trefage job departement rate for Female and age to vo | 0101121100 | 01100 | - | 11 |
| Average job destruction rate for Male and Female and age 14-18 | JDR_A0A01 | 01008 | 4 | N |
| Average job destruction rate for Male and Female and age 14-99 | JDR_A0A00 | 00996 | 4 | N |
| Average job destruction rate for Male and Female and age 19-21 | JDR_A0A02 | 01020 | 4 | N |
| 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 | JDR_A0A05 | 01056 | 4 | N |
| age 35-44 Average job destruction rate for Male and Female and age 45-54 | JDR_A0A06 | 01068 | 4 | N |

| CHAPTER 7. QUARTERLY WORK | | | , , - | |
|---|--------------------------------|-------------------|---------------|------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Average job destruction rate for Male and Female and | JDR_A0A07 | 01080 | size 4 | type |
| age 55-64 | 3DICAOA01 | 01000 | 4 | 11 |
| Average job destruction rate for Male and Female and | JDR_A0A08 | 01092 | 4 | N |
| age 65-99 | 3D10_1101100 | 01032 | 4 | 11 |
| 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 | $ m 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 | JDR_A1A05 | 01060 | 4 | 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 | $ m 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 | FAR_A2A00 | 02732 | 4 | N |
| Female and age 14-99 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A2A02 | 02756 | 4 | N |
| Female and age 19-21 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A2A03 | 02768 | 4 | 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 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A2A06 | 02804 | 4 | N |
| Female and age 45-54 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A2A07 | 02816 | 4 | N |
| Female and age 55-64 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A2A08 | 02828 | 4 | N |
| Female and age 65-99 | | | | |
| 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 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A0A02 | 02748 | 4 | N |
| Male and Female and age 19 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A0A03 | 02760 | 4 | N |
| Male and Female and age 22 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A0A04 | 02772 | 4 | N |
| Male and Female and age 25 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A0A05 | 02784 | 4 | N |
| Male and Female and age 35 | | | | |
| 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 | | 3_000 | - | |
| Average rate of flow into full-quarter employment for | FAR_A0A08 | 02820 | 4 | N |
| Male and Female and age 65 | | - 0 | | |
| J | | | | |

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| CHAITER 7. QUARTERET WORKFORCE INDICA | | (• / | D: 11 | - D |
|---|--------------------------------|-------------------|---------------|--------------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Average rate of flow into full-quarter employment for | FAR_A1A01 | 02740 | 4 | type N |
| Male and age 14-18 | 17110_7117101 | 02140 | 4 | 11 |
| Average rate of flow into full-quarter employment for | FAR_A1A00 | 02728 | 4 | N |
| Male and age 14-99 | 17110_7117100 | 02120 | - | 11 |
| Average rate of flow into full-quarter employment for | FAR_A1A02 | 02752 | 4 | N |
| Male and age 19-21 | 17110_7117102 | 02102 | - | 11 |
| Average rate of flow into full-quarter employment for | FAR_A1A03 | 02764 | 4 | N |
| Male and age 22-24 | 11110=1111100 | 02101 | - | 11 |
| Average rate of flow into full-quarter employment for | FAR_A1A04 | 02776 | 4 | N |
| Male and age 25-34 | | | | |
| Average rate of flow into full-quarter employment for | FAR_A1A05 | 02788 | 4 | N |
| Male and age 35-44 | | | | |
| 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 | | 0-0 | | |
| Average rate of flow into full-quarter employment for | FAR_A1A08 | 02824 | 4 | N |
| Male and age 65-99 | | 0-0 | _ | |
| 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 | | | | |
| 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 | | | | |
| Average rate of flow out of full-quarter employment | FSR_A2A06 | 03020 | 4 | N |
| for Female and age 45-54 | | | | |
| Average rate of flow out of full-quarter employment | FSR_A2A07 | 03032 | 4 | N |
| for Female and age 55-64 | | | | |
| 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 | \mathbf{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 | | | | |
| 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 | DCD 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 41401 | 00050 | 4 | ЪТ |
| Average rate of flow out of full-quarter employment | FSR_A1A01 | 02956 | 4 | N |
| for Male and age 14-18 | EGD 41400 | 00044 | 4 | 3.7 |
| Average rate of flow out of full-quarter employment | FSR_A1A00 | 02944 | 4 | N |
| for Male and age 14-99 | EGD 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 | TN.T |
| Average rate of flow out of full-quarter employment | FSR_A1A03 | 02980 | 4 | N |
| for Male and age 22-24 | ECD A1A0A | 00000 | 4 | ЪТ |
| Average rate of flow out of full-quarter employment | FSR_A1A04 | 02992 | 4 | N |
| for Male and age 25-34 | EGD A1AOF | 00004 | , | 3.7 |
| Average rate of flow out of full-quarter employment | FSR_A1A05 | 03004 | 4 | N |
| for Male and age 35-44 | ECD A1A00 | 00010 | , | 3.7 |
| Average rate of flow out of full-quarter employment | FSR_A1A06 | 03016 | 4 | N |
| for Male and age 45-54 | ECD ALACE | 00000 | , | 3.7 |
| Average rate of flow out of full-quarter employment | FSR_A1A07 | 03028 | 4 | N |
| for Male and age 55-64 | EGD 41400 | 00040 | , | 3.7 |
| Average rate of flow out of full-quarter employment | FSR_A1A08 | 03040 | 4 | N |
| for Male and age 65-99 | | | | |
| 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 | | | | |
| 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 |
| | | | | |

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| CHAITER 1. QUARTERET WORKFORCE INDICA. | , | - / | | |
|--|-----------------|----------|-------|------|
| Field name | Data dictionary | Starting | Field | Data |
| | 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 45-54 | B_A2A06 | 00104 | 4 | N |
| Beginning-of-period employment for Female and age 55-64 | B_A2A07 | 00116 | 4 | N |
| 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 | 00084 | 4 | N |
| and age 35-44 Beginning-of-period employment for Male and Female | B_A0A06 | 00096 | 4 | N |
| and age 45-54 Beginning-of-period employment for Male and Female | B_A0A07 | 00108 | 4 | N |
| and age 55-64 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 |
| 21 | | | | |

| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------|----------|-------|------|
| rieid name | reference name | position | size | type |
| Beginning-of-period employment for Male and age 22- | B_A1A03 | 00064 | 4 | N |
| 24 | | | | |
| Beginning-of-period employment for Male and age 25-34 | B_A1A04 | 00076 | 4 | N |
| Beginning-of-period employment for Male and age 35- | B_A1A05 | 00088 | 4 | N |
| Beginning-of-period employment for Male and age 45- | B_A1A06 | 00100 | 4 | N |
| 54 Beginning-of-period employment for Male and age 55- | B_A1A07 | 00112 | 4 | N |
| 64 Beginning-of-period employment for Male and age 65- | B_A1A08 | 00124 | 4 | N |
| 99 Change in total earnings for accessions for Female and | DWA_A2A01 | 03824 | 4 | N |
| age 14-18 Change in total earnings for accessions for Female and | DWA_A2A00 | 03812 | 4 | N |
| age 14-99 Change in total earnings for accessions for Female and | DWA_A2A02 | 03836 | 4 | N |
| age 19-21 Change in total earnings for accessions for Female and | DWA_A2A03 | 03848 | 4 | N |
| age 22-24 Change in total earnings for accessions for Female and | DWA_A2A04 | 03860 | 4 | N |
| age 25-34 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 Female and age 25-34 | DWA_A0A04 | 03852 | 4 | N |
| Change in total earnings for accessions for Male and Female and age 35-44 | DWA_A0A05 | 03864 | 4 | N |
| Change in total earnings for accessions for Male and Female and age 45-54 | DWA_A0A06 | 03876 | 4 | N |
| Change in total earnings for accessions for Male and Female and age 55-64 | DWA_A0A07 | 03888 | 4 | N |
| Change in total earnings for accessions for Male and Female and age 65-99 | DWA_A0A08 | 03900 | 4 | N |
| Change in total earnings for accessions for Male and age 14-18 | DWA_A1A01 | 03820 | 4 | N |
| | | | | |

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| 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 | DWILITIOO | 03000 | 4 | 11 |
| Change in total earnings for accessions for Male and | DWA_A1A02 | 03832 | 4 | N |
| age 19-21 | | 0000_ | | |
| 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 | **** | | | 3.7 |
| Change in total earnings for accessions for Male and | DWA_A1A08 | 03904 | 4 | N |
| age 65-99 | THEO ACADA | 0.400.4 | 4 | 3. T |
| Change in total earnings for full-quarter separations | $DWFS_A2A01$ | 04904 | 4 | N |
| for Female and age 14-18 | DWEC ADADO | 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 S_AZAUZ | 04910 | 4 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A2A03 | 04928 | 4 | N |
| for Female and age 22-24 | DWF 02/12/100 | 04320 | 4 | 11 |
| Change in total earnings for full-quarter separations | $DWFS_A2A04$ | 04940 | 4 | N |
| for Female and age 25-34 | D ((1) = 1121101 | 01010 | 1 | 11 |
| 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 | | | | |
| Change in total earnings for full-quarter separations | $DWFS_A0A00$ | 04884 | 4 | N |
| for Male and Female and ag | THEO ADAGO | 0.4000 | | 3.7 |
| Change in total earnings for full-quarter separations | DWFS_A0A02 | 04908 | 4 | N |
| for Male and Female and ag | PINEC ACADA | 0.4000 | 4 | NΤ |
| Change in total earnings for full-quarter separations | DWFS_A0A03 | 04920 | 4 | N |
| for Male and Female and ag Change in total earnings for full-quarter separations | DWFS_A0A04 | 04022 | 4 | N |
| for Male and Female and ag | DWF5_A0A04 | 04932 | 4 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A0A05 | 04944 | 4 | N |
| for Male and Female and ag | DWFS_A0A00 | 04344 | 4 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A0A06 | 04956 | 4 | N |
| for Male and Female and ag | 2 11 1 0 11 10 11 10 0 | 01000 | 7 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A0A07 | 04968 | 4 | N |
| for Male and Female and ag | | 0 20 00 | - | ± · |
| · · · · · · · · · · · · · · · · · · · | | | | |

| CHAPTER 7. QUARTERLY WORK | 1 | | ` - | |
|---|--------------------------------|-------------------|---------------|--------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Change in total earnings for full-quarter separations | DWFS_A0A08 | 04980 | size 4 | type N |
| for Male and Female and ag | DWFS_A0A06 | 04900 | 4 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A1A01 | 04900 | 4 | N |
| for Male and age 14-18 | DW1 02111101 | 04300 | 7 | 11 |
| Change in total earnings for full-quarter separations | DWFS_A1A00 | 04888 | 4 | N |
| for Male and age 14-99 | DW1 02111100 | 01000 | 1 | 1, |
| Change in total earnings for full-quarter separations | DWFS_A1A02 | 04912 | 4 | N |
| for Male and age 19-21 | D , , T S = 111110 = | 01012 | - | |
| 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 | TTT0 1 0 1 0 = | 0.4-00 | | |
| Change in total earnings for separations for Female | DWS_A2A07 | 04760 | 4 | N |
| and age 55-64 | THE ADADO | 0.4550 | 4 | ът. |
| Change in total earnings for separations for Female | DWS_A2A08 | 04772 | 4 | N |
| and age 65-99 | - IIIO A O A O 1 | 0.4600 | 4 | N.T. |
| Change in total earnings for separations for Male and | DWS_A0A01 | 04680 | 4 | N |
| Female and age 14-18 | - W.C. A 0 A 0 0 | 0.4660 | 4 | TN.T |
| Change in total earnings for separations for Male and | DWS_A0A00 | 04668 | 4 | N |
| Female and age 14-99 Change in total earnings for separations for Male and | DWS_A0A02 | 04692 | 4 | N |
| Female and age 19-21 | DWS_A0A02 | 04092 | 4 | 11 |
| Change in total earnings for separations for Male and | DWS_A0A03 | 04704 | 4 | N |
| Female and age 22-24 | 60V0VTC AA | 04104 | 4 | 11 |
| Change in total earnings for separations for Male and | DWS_A0A04 | 04716 | 4 | N |
| Female and age 25-34 | DIIDIIOI | 04110 | 4 | 11 |
| Change in total earnings for separations for Male and | DWS_A0A05 | 04728 | 4 | N |
| Female and age 35-44 | _ ,, | 01120 | 1 | 11 |
| | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|---|---|------------|-------|------|
| | reference name | position | size | type |
| Change in total earnings for separations for Male and | DWS_A0A06 | 04740 | 4 | N |
| Female and age 45-54 | - IIIO A O A O 7 | 0.4750 | 4 | TA T |
| Change in total earnings for separations for Male and | DWS_A0A07 | 04752 | 4 | N |
| Female and age 55-64 Change in total earnings for separations for Male and | DWS_A0A08 | 04764 | 4 | N |
| Female and age 65-99 | DWS_AUAU8 | 04704 | 4 | 11 |
| Change in total earnings for separations for Male and | DWS_A1A01 | 04684 | 4 | N |
| age 14-18 | _ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0 -00 - | | |
| Change in total earnings for separations for Male and | DWS_A1A00 | 04672 | 4 | N |
| age 14-99 | | | | |
| Change in total earnings for separations for Male and | DWS_A1A02 | 04696 | 4 | N |
| age 19-21 | TTIC 44 4 00 | 0.4500 | | 3.7 |
| Change in total earnings for separations for Male and | DWS_A1A03 | 04708 | 4 | N |
| age 22-24 Change in total earnings for separations for Male and | DWS_A1A04 | 04720 | 4 | N |
| age 25-34 | DWS_ATA04 | 04120 | 4 | 11 |
| Change in total earnings for separations for Male and | DWS_A1A05 | 04732 | 4 | N |
| age 35-44 | _ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | V - 1, V - | _ | |
| Change in total earnings for separations for Male and | DWS_A1A06 | 04744 | 4 | N |
| age 45-54 | | | | |
| Change in total earnings for separations for Male and | DWS_A1A07 | 04756 | 4 | N |
| age 55-64 | THE ALLOS | 0.4700 | | 3.7 |
| Change in total earnings for separations for Male and | DWS_A1A08 | 04768 | 4 | N |
| age 65-99 Change in total earnings for transits to full-quarter | DWFA_A2A01 | 04148 | 4 | N |
| status for Female and age | DWFA_AZA01 | 04146 | 4 | 11 |
| Change in total earnings for transits to full-quarter | $DWFA_A2A00$ | 04136 | 4 | N |
| status for Female and age | | 0 0 0 | | |
| Change in total earnings for transits to full-quarter | $DWFA_A2A02$ | 04160 | 4 | N |
| status for Female and age | | | | |
| Change in total earnings for transits to full-quarter | $DWFA_A2A03$ | 04172 | 4 | N |
| status for Female and age | THE ACADA | 0.44.0.4 | | 3.7 |
| Change in total earnings for transits to full-quarter | $DWFA_A2A04$ | 04184 | 4 | N |
| status for Female and age Change in total earnings for transits to full-quarter | DWFA_A2A05 | 04196 | 4 | N |
| status for Female and age | DWFA_AZA00 | 04190 | 4 | 11 |
| Change in total earnings for transits to full-quarter | $DWFA_A2A06$ | 04208 | 4 | N |
| status for Female and age | | | | |
| Change in total earnings for transits to full-quarter | $DWFA_A2A07$ | 04220 | 4 | N |
| status for Female and age | | | | |
| Change in total earnings for transits to full-quarter | $DWFA_A2A08$ | 04232 | 4 | N |
| status for Female and age | THEA ADAD1 | 0.41.40 | 4 | N.T. |
| Change in total earnings for transits to full-quarter status for Male and Female | DWFA_A0A01 | 04140 | 4 | N |
| Change in total earnings for transits to full-quarter | DWFA_A0A00 | 04128 | 4 | N |
| status for Male and Female | DWITIZIOIOO | 04120 | 4 | 11 |
| Change in total earnings for transits to full-quarter | DWFA_A0A02 | 04152 | 4 | N |
| status for Male and Female | | | | |
| Change in total earnings for transits to full-quarter | $DWFA_A0A03$ | 04164 | 4 | N |
| status for Male and Female | | | | |
| | | | | |

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| Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and geng 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 29 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter stat | Did Did GOARTERED WORK | | | | |
|--|---|---------------|---------|---|-----|
| Change in total carnings for transits to full-quarter status for Male and Female DWFA_A0A05 O4188 4 N | Field name | | | | |
| status for Male and Female Change in total carnings for transits to full-quarter status for Male and Female Change in total carnings for transits to full-quarter status for Male and Female Change in total carnings for transits to full-quarter status for Male and Female Change in total carnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and genale Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 36 Change in total earnings for transits to full-quarter status for Male and age 36 Change in total earnings for transits to full-quarter status for Male and age 36 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and a | | | | | |
| Change in total carnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earni | - | DWFA_A0A04 | 04176 | 4 | N |
| status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 15 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and a | | | 0.41.00 | 4 | 3.7 |
| Change in total carnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and Fernale Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Change for Deant full full full full full full full ful | - | DWFA_A0A05 | 04188 | 4 | N |
| Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Cleaned GEO FIPS County CCC LEG_COUNTY Cleaned SIC Code III ESSOZ FIPS State SS Employment any time during the period for Female and age 14-9 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any t | | | | | |
| Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 29 Change in total earnings for transits to full-quarter status for Male and age 20 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earni | | DWFA_A0A06 | 04200 | 4 | N |
| status for Male and Female Change in total carnings for transits to full-quarter status for Male and Female Change in total carnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 29 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GWER_CODE O Cleaned GWER_CODE O ES_OWNER_CODE O SS_STETE DWFA_A1A08 DWFA_A1A06 DWF | | | 0.404.0 | | |
| Change in total earnings for transits to full-quarter status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Clange GEO FIPS County CCC LEG_COUNTY DWFA_A1A06 | | DWFA_A0A07 | 04212 | 4 | N |
| status for Male and Female Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Cleaned GWORENCODE Cleaned GWORENCODE Cleaned GWORENCODE ES.OWNER.CODE ES.OWNER.CODE OT494 A/N ES.SIC O7494 A/N ES.SIC O7 | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in tota | | DWFA_A0A08 | 04224 | 4 | N |
| status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Claend GEO FIPS County CCC LEG_COUNTY Cleaned GEO FIPS County CCC LEG_COUNTY Cleaned OWNER_CODE O ES_OWNER_CODE Cleaned OWNER_CODE O ES_SUMSER_CODE M_A2A01 M_A2A01 M_A2A01 M_A2A02 M_A2A03 M_A2A03 M_A2A03 M_A2A04 M_A2A04 M_A2A05 M_A2A06 M_A2A06 M_A2A06 M_A2A06 M_A2A07 M_A2A07 M_A2A08 M_ | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Cleaned GNO FIPS County CCC Leaned GWFA_A1A08 Cleaned GFO FIPS County CCC Leaned GWNER_CODE O ES_OWNER_CODE OT493 A/N Cleaned SIC Code IIII ES_SIC O7494 A/N ES_OZ FIPS State SS ES_STATE O7526 DA_A2A01 O0260 ANA NAA2A01 M_A2A02 O0272 ANA NAA2A04 NAA2A04 NAA2A05 M_A2A06 NAA2A06 NAA2A06 NAA2A07 NAA2A07 NAA2A08 M_A2A07 NAA2A08 | | DWFA_A1A01 | 04144 | 4 | N |
| status for Male and age 14 Change in total earnings for transits to full-quarter status for Male and age 19 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC Leaned GEO FIPS County CCC Leaned GIC Code IIII ES.SIC MALE ALAOS ES.ONNER.CODE ES.ONNER.CODE ES.ONNER.CODE ES.ONNER.CODE ES.STATE OT526 ES.STATE OT526 EM.A2AO1 O0260 A N MA2AO0 O0248 A N Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female | | | | | |
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| Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Clande GEO FIPS County CCC Cleaned GEO FIPS County CCC Cleaned GEO FIPS County CCC Cleaned SIC Code III ESSIC CO7494 ESSIC CO7494 EMALA ADO MALA ADO | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male and 89 Eage Change in total earnings for transits to full-quarter status for Male a | | $DWFA_A1A02$ | 04156 | 4 | N |
| Status for Male and age 22 Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Cleaned GEO FIPS County CCC LEG_COUNTY OT498 SLEG_COUNTY | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Clanage in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY Cleaned OWNER_CODE O ES_OWNER_CODE UFS_SIG UT494 UFS_SIG | Change in total earnings for transits to full-quarter | $DWFA_A1A03$ | 04168 | 4 | N |
| status for Male and age 25 Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Cleaned GEO FIPS County CCC LEG_COUNTY Cleaned GWNER_CODE O ES_OWNER_CODE SS_SIC O7498 1 A/N Cleaned SIC Code IIII ES_SIC O7494 4 A/N ES202 FIPS State SS ES_STATE O7526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-19 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY O7498 3 A/N Cleaned GEO FIPS County CCC LEG_COUNTY O7498 3 A/N Cleaned GEO FIPS County CCC SE_SOWNER_CODE O7493 1 A/N ESSIC O7494 4 A/N ESSIC O7494 4 A/N EMPloyment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 35-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 | | $DWFA_A1A04$ | 04180 | 4 | N |
| Status for Male and age 35 Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY O7498 3 A/N Cleaned OWNER_CODE O ES_OWNER_CODE 07493 1 A/N Cleaned SIC Code IIII ES_SIC 07494 4 A/N ES_SIC 07494 4 A/N ES_SIC ES_STATE 07526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 | | | | | |
| Change in total earnings for transits to full-quarter status for Male and age 45 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY Cleaned OWNER_CODE O ES_OWNER_CODE State SS ES_STATE State SS ES_STATE STATE STAT | Change in total earnings for transits to full-quarter | $DWFA_A1A05$ | 04192 | 4 | N |
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| status for Male and age 55 Change in total earnings for transits to full-quarter status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY O7498 3 A/N Cleaned OWNER_CODE O ES_OWNER_CODE O7493 1 A/N Cleaned SIC Code IIII ES_SIC O7494 4 A/N ES202 FIPS State SS ES_STATE O7526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 35-64 | status for Male and age 45 | | | | |
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| Status for Male and age 65 Cleaned GEO FIPS County CCC LEG_COUNTY O7498 3 A/N Cleaned OWNER_CODE O ES_OWNER_CODE O7493 1 A/N Cleaned SIC Code IIII ES_SIC O7494 4 A/N ES_202 FIPS State SS ES_STATE O7526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female Employment any time during the period for Female and age 45-54 Employment any time during the period for Female Employment any time during the period for Female and age 55-64 Employment any time during the period for Female Employment any time during the period for Female A_A2A07 O0332 A N A/N A/N A/N A/N A/N A/N A/N A/N A/N | | | | | |
| Cleaned GEO FIPS County CCC Cleaned OWNER_CODE O ES_OWNER_CODE O7493 1 A/N Cleaned SIC Code IIII ES_SIC O7494 4 A/N ES202 FIPS State SS ES_STATE O7526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 45-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female and age 55-64 | Change in total earnings for transits to full-quarter | DWFA_A1A08 | 04228 | 4 | N |
| Cleaned OWNER_CODE O Cleaned SIC Code IIII ES_SIC O7494 4 A/N ES202 FIPS State SS ES_STATE O7526 2 A/N Employment any time during the period for Female and age 14-18 Employment any time during the period for Female and age 14-99 Employment any time during the period for Female and age 19-21 Employment any time during the period for Female and age 22-24 Employment any time during the period for Female and age 25-34 Employment any time during the period for Female and age 35-44 Employment any time during the period for Female and age 45-54 Employment any time during the period for Female and age 45-64 Employment any time during the period for Female and age 55-64 Employment any time during the period for Female M_A2A08 M_A2A08 O0332 A/N A/N A/N A/N A/N A/N A/N A/ | status for Male and age 65 | | | | |
| Cleaned SIC Code IIII ES202 FIPS State SS ES.STATE 07526 2 A/N EMPLOYMENT AND 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 | Cleaned GEO FIPS County CCC | LEG_COUNTY | 07498 | 3 | A/N |
| ES202 FIPS State SS 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 | Cleaned OWNER_CODE O | ES_OWNER_CODE | 07493 | 1 | A/N |
| ES202 FIPS State SS 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 | Cleaned SIC Code IIII | ES_SIC | 07494 | 4 | 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 | ES202 FIPS State SS | ES_STATE | 07526 | 2 | |
| 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 | | M_A2A01 | | | |
| 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 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 | · · | M_A2A00 | 00248 | 4 | N |
| 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 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 | · · | M_A2A02 | 00272 | 4 | N |
| 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 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_A2A06 00332 4 N and age 55-64 Employment any time during the period for Female M_A2A07 00332 4 N | e e e e e e e e e e e e e e e e e e e | M_A2A03 | 00284 | 4 | N |
| 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 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 | · · | M_A2A04 | 00296 | 4 | N |
| 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 | - • • • • - | | 00200 | - | |
| 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 | · · | M A2A05 | 00308 | 4 | N |
| 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 | | | 00000 | _ | |
| 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 | · · | M A2A06 | 00320 | 4 | N |
| 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 | - • • • • - | 1.1_11_1100 | 00020 | 7 | 11 |
| and age $55\text{-}64$ Employment any time during the period for Female M_A2A08 00344 4 N | · · | M A2A07 | 00333 | 1 | N |
| Employment any time during the period for Female M_A2A08 00344 4 N | - • • • • - | 1/1_/14/11/01 | 00002 | 4 | 14 |
| - • • • • • | · · | M A2A08 | 00344 | 1 | N |
| and age or or | - • • • • - | 101_1141100 | 00344 | 4 | 11 |
| | and ago 00 00 | | | | |

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

| Field name | Data dictionary reference name | Starting | Field | Data |
|--|--------------------------------|----------------|-------|------|
| Employment any time during the period for Male and | M_A0A01 | position 00252 | size | type |
| Female and age 14-18 | M_A0A01 | 00232 | 4 | IN |
| Employment any time during the period for Male and | M_A0A00 | 00240 | 4 | N |
| Female and age 14-99 | W1_7107100 | 00240 | 4 | 11 |
| Employment any time during the period for Male and | M_A0A02 | 00264 | 4 | N |
| Female and age 19-21 | W1_1101102 | 00201 | 1 | 11 |
| Employment any time during the period for Male and | M_A0A03 | 00276 | 4 | N |
| Female and age 22-24 | | 00_,0 | | |
| Employment any time during the period for Male and | M_A0A04 | 00288 | 4 | N |
| Female and age 25-34 | | | | |
| Employment any time during the period for Male and | M_A0A05 | 00300 | 4 | N |
| Female and age 35-44 | | | | |
| 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_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 | | | | |
| Employment any time during the period for Male and | M_A1A01 | 00256 | 4 | N |
| age 14-18 | 35 44400 | 00011 | | 3.7 |
| Employment any time during the period for Male and | M_A1A00 | 00244 | 4 | N |
| age 14-99 | M. A.1.A.00 | 00000 | 4 | N.T. |
| Employment any time during the period for Male and | M_A1A02 | 00268 | 4 | N |
| age 19-21 Employment any time during the period for Male and | M_A1A03 | 00280 | 4 | N |
| age 22-24 | M_ATA05 | 00280 | 4 | 11 |
| Employment any time during the period for Male and | M_A1A04 | 00292 | 4 | N |
| age 25-34 | WI_IIIIO+ | 00232 | - | 11 |
| 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 | E_A2A05 | 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 age 14-18 | E_A0A01 | 00144 | 4 | N |
| End-of-period employment for Male and Female and | E_A0A00 | 00132 | 4 | N |
| age 14-99 | L_1101100 | 00132 | 4 | T.A. |

| CHAPTER 7. QUARTERLY WORK | 1 | | | |
|---|--|-------------------|---------------|--------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| End-of-period employment for Male and Female and | E_A0A02 | 00156 | size 4 | type N |
| age 19-21 | E_A0A02 | 00100 | 4 | 11 |
| End-of-period employment for Male and Female and | E_A0A03 | 00168 | 4 | N |
| age 22-24 | T 10101 | 00400 | | 3.7 |
| End-of-period employment for Male and Female and | E_A0A04 | 00180 | 4 | N |
| age 25-34 | E AOAOF | 00100 | 4 | NT. |
| End-of-period employment for Male and Female and | EA0A05 | 00192 | 4 | N |
| age 35-44 End-of-period employment for Male and Female and | E_A0A06 | 00204 | 4 | N |
| age 45-54 | L_1101100 | 00204 | 4 | 11 |
| 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 | | | | |
| 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 | N |
| Final 2002 NAICS Code NNNNNN | ES_NAICS_FNL2002 | 07528 | 6 | A/N |
| Flow into consecutive quarter employment for Female and age 14-18 | CA_A2A01 | 03068 | 4 | N |
| Flow into consecutive quarter employment for Female | CA_A2A00 | 03056 | 4 | N |
| and age 14-99 | | | | |
| Flow into consecutive quarter employment for Female | $\mathrm{CA_A2A02}$ | 03080 | 4 | N |
| and age 19-21 | | | | |
| Flow into consecutive quarter employment for Female | CA_A2A03 | 03092 | 4 | N |
| and age 22-24 | | | | |
| Flow into consecutive quarter employment for Female | CA_A2A04 | 03104 | 4 | N |
| and age 25-34 | | | | |
| Flow into consecutive quarter employment for Female | CA_A2A05 | 03116 | 4 | N |
| and age 35-44 | CA 40400 | 00100 | | N.T. |
| Flow into consecutive quarter employment for Female | CA_A2A06 | 03128 | 4 | N |
| and age 45-54 | CA A0A07 | 09140 | 4 | NT. |
| Flow into consecutive quarter employment for Female | CA_A2A07 | 03140 | 4 | N |
| and age 55-64 Flow into consecutive quarter employment for Female. | $C\Lambda$ Λ 2 Λ 0 | 03152 | 4 | N |
| Flow into consecutive quarter employment for Female and age 65-99 | CA_A2A08 | 03132 | 4 | 11 |
| Flow into consecutive quarter employment for Male | CA_A0A01 | 03060 | 4 | N |
| and Female and age 14-18 | 071_7107101 | 09000 | - | 11 |
| Flow into consecutive quarter employment for Male | CA_A0A00 | 03048 | 4 | N |
| and Female and age 14-99 | | 000-0 | _ | |
| Flow into consecutive quarter employment for Male | CA_A0A02 | 03072 | 4 | N |
| and Female and age 19-21 | | | | |
| Flow into consecutive quarter employment for Male | CA_A0A03 | 03084 | 4 | N |
| and Female and age 22-24 | | | | |
| | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------|----------|----------|------|
| 1 fold figure | reference name | position | size | type |
| Flow into consecutive quarter employment for Male | CA_A0A04 | 03096 | 4 | N |
| and Female and age 25-34 | | 00100 | | 3.7 |
| Flow into consecutive quarter employment for Male | CA_A0A05 | 03108 | 4 | N |
| and Female and age 35-44 Flow into consecutive quarter employment for Male | CA_A0A06 | 03120 | 4 | N |
| and Female and age 45-54 | CA_A0A00 | 03120 | 4 | 11 |
| Flow into consecutive quarter employment for Male | CA_A0A07 | 03132 | 4 | N |
| and Female and age 55-64 | | | | |
| Flow into consecutive quarter employment for Male | CA_A0A08 | 03144 | 4 | N |
| and Female and age 65-99 | | | | |
| Flow into consecutive quarter employment for Male | CA_A1A01 | 03064 | 4 | N |
| and age 14-18 Flow into consecutive quarter employment for Male | CA_A1A00 | 03052 | 1 | N |
| and age 14-99 | CA_ATA00 | 03032 | 4 | IN |
| Flow into consecutive quarter employment for Male | CA_A1A02 | 03076 | 4 | N |
| and age 19-21 | 01121111102 | 00010 | <u>.</u> | 11 |
| 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 | CA_A1A06 | 03124 | 1 | N |
| Flow into consecutive quarter employment for Male and age 45-54 | CA_A1A00 | 03124 | 4 | IN |
| Flow into consecutive quarter employment for Male | CA_A1A07 | 03136 | 4 | N |
| and age 55-64 | | 00100 | <u>.</u> | 11 |
| 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 | T1 10100 | 00004 | | 3.7 |
| 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 | ra_azauz | 02048 | 4 | IN |
| 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 | EA 40400 | 00000 | 4 | 3.7 |
| 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 | 171_7127101 | 02100 | 4 | 11 |
| 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 | | | | |
| | | | | |

| Did Ten I. Quantienti woni | | | | |
|--|--------------------------------|-------------------|---------------|------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Flow into full-quarter employment for Male and Fe- | FA_A0A02 | 02640 | size 4 | type |
| male and age 19-21 | ra_A0A02 | 02040 | 4 | IN |
| Flow into full-quarter employment for Male and Fe- | FA_A0A03 | 02652 | 4 | N |
| male and age 22-24 | FA_A0A03 | 02032 | 4 | IN |
| Flow into full-quarter employment for Male and Fe- | FA_A0A04 | 02664 | 4 | N |
| | ra_A0A04 | 02004 | 4 | IN |
| male and age 25-34 | EA AOAOE | 00676 | 4 | NT |
| Flow into full-quarter employment for Male and Fe- | FA_A0A05 | 02676 | 4 | N |
| male and age 35-44 | FA_A0A06 | 00000 | 4 | NT |
| Flow into full-quarter employment for Male and Fe- | ra_A0A00 | 02688 | 4 | N |
| male and age 45-54 | EA AOAO7 | 02700 | 4 | NT |
| Flow into full-quarter employment for Male and Fe- | FA_A0A07 | 02700 | 4 | N |
| male and age 55-64 | EA A 0 A 0 0 | 00710 | 4 | ».T |
| Flow into full-quarter employment for Male and Fe- | FA_A0A08 | 02712 | 4 | N |
| male and age 65-99 | E1 14104 | 00000 | | 3.7 |
| Flow into full-quarter employment for Male and age | FA_A1A01 | 02632 | 4 | N |
| 14-18 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A00 | 02620 | 4 | N |
| 14-99 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A02 | 02644 | 4 | N |
| 19-21 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A03 | 02656 | 4 | N |
| 22-24 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A04 | 02668 | 4 | N |
| 25-34 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A05 | 02680 | 4 | N |
| 35-44 | | | | |
| Flow into full-quarter employment for Male and age | FA_A1A06 | 02692 | 4 | N |
| 45-54 | | | | |
| 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 |
| male and age 65-99 | | | | |
| | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|--|-----------------|----------|-------|------|
| Fleid 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 | CC 40400 | 00100 | 4 | ът |
| Flow out of consecutive quarter employment for Male | CS_A0A02 | 03180 | 4 | N |
| and Female and age 19-21 Flow out of consecutive quarter employment for Male | CS_A0A03 | 03192 | 4 | N |
| and Female and age 22-24 | CS_AUAU3 | 03192 | 4 | IN |
| Flow out of consecutive quarter employment for Male | CS_A0A04 | 03204 | 4 | N |
| and Female and age 25-34 | 0021101101 | 00201 | 1 | 1, |
| Flow out of consecutive quarter employment for Male | CS_A0A05 | 03216 | 4 | N |
| and Female and age 35-44 | | | | |
| Flow out of consecutive quarter employment for Male | CS_A0A06 | 03228 | 4 | N |
| and Female and age 45-54 | | | | |
| Flow out of consecutive quarter employment for Male | CS_A0A07 | 03240 | 4 | N |
| and Female and age 55-64 | | | | |
| Flow out of consecutive quarter employment for Male | CS_A0A08 | 03252 | 4 | N |
| and Female and age 65-99 | | | | 3.7 |
| Flow out of consecutive quarter employment for Male | CS_A1A01 | 03172 | 4 | N |
| and age 14-18 | CC 41400 | 09160 | 4 | N.T. |
| 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 | C5_A1A02 | 03164 | 4 | IN |
| Flow out of consecutive quarter employment for Male | CS_A1A03 | 03196 | 4 | N |
| and age 22-24 | 002111100 | 00100 | 1 | 1, |
| Flow out of consecutive quarter employment for Male | CS_A1A04 | 03208 | 4 | N |
| and age 25-34 | | | | |
| 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 | | | | |
| Flow out of consecutive quarter employment for Male | CS_A1A07 | 03244 | 4 | N |
| and age 55-64 | ~~ | | | 3.7 |
| Flow out of consecutive quarter employment for Male | CS_A1A08 | 03256 | 4 | N |
| and age 65-99 | TIC 40401 | 00070 | 4 | N.T. |
| Flow out of full-quarter employment for Female and | FS_A2A01 | 02852 | 4 | N |
| age 14-18 Flow out of full-quarter employment for Female and | FS_A2A00 | 02840 | 4 | N |
| age 14-99 | F5_A2A00 | 02040 | 4 | 11 |
| Flow out of full-quarter employment for Female and | FS_A2A02 | 02864 | 4 | N |
| age 19-21 | 1021121102 | 02001 | 1 | 1, |
| 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 | | | | |
| 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 | \mathbf{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 | 70 10100 | | | |
| Flow out of full-quarter employment for Male and Fe- | FS_A0A03 | 02868 | 4 | N |
| male and age 22-24 | FG 40404 | 02000 | | 7A.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 | ът |
| Flow out of full-quarter employment for Male and Fe- | FS_A0A05 | 02892 | 4 | N |
| male and age 35-44 | EC ADADE | 02004 | 4 | N.T. |
| 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_AOAO1 | 02910 | 4 | 11 |
| Flow out of full-quarter employment for Male and Fe- | FS_A0A08 | 02928 | 4 | N |
| male and age 65-99 | 152101100 | 02320 | 4 | 11 |
| Flow out of full-quarter employment for Male and age | FS_A1A01 | 02848 | 4 | N |
| 14-18 | | 02010 | 1 | 11 |
| 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 | 7 | | | |
| 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 Full-quarter employment for Female and age 35-44 | F_A2A04 | 00404 | 4 | N |
| 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 00452 | $\frac{4}{4}$ | N |
| Tan quarter employment for Lemane and age 00-55 | 1 1121100 | 00402 | - | 11 |

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

| 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 44404 | 00004 | | 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 | 01460 | 4 | N |
| Full-quarter job creation for Female and age 22-24 | FJC_A2A03 | 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 | $01496 \\ 01508$ | 4 | N |
| Full-quarter job creation for Female and age 45-54 Full-quarter job creation for Female and age 55-64 | FJC_A2A06 | | 4 | N |
| Full-quarter job creation for Female and age 55-64 Full-quarter job creation for Female and age 65-99 | FJC_A2A07 FJC_A2A08 | $01520 \\ 01532$ | 4 | N N |
| Full-quarter job creation for Male and Female and age | FJC_A2A08 FJC_A0A01 | 01332 | $\frac{4}{4}$ | N N |
| 14-18 | r JC_AUAU1 | 01440 | 4 | IN |
| Full-quarter job creation for Male and Female and age | FJC_A0A00 | 01428 | 1 | N |
| 14-99 | r JC_AUAUU | 01426 | 4 | 11 |
| Full-quarter job creation for Male and Female and age | FJC_A0A02 | 01452 | 4 | N |
| 19-21 | T JO_A0A02 | 01452 | 4 | 11 |
| Full-quarter job creation for Male and Female and age | FJC_A0A03 | 01464 | 4 | N |
| 22-24 | r JO_A0A03 | 01404 | 4 | 11 |
| Full-quarter job creation for Male and Female and age | FJC_A0A04 | 01476 | 4 | N |
| 25-34 | 1302101104 | 01410 | 4 | 11 |
| Full-quarter job creation for Male and Female and age | FJC_A0A05 | 01488 | 4 | N |
| 35-44 | 1001100 | 01400 | 7 | Τ.1 |
| Full-quarter job creation for Male and Female and age | FJC_A0A06 | 01500 | 4 | N |
| 45-54 | 5 5 == 501100 | 01000 | • | Ξ, |
| | | | | |

| CHAITER 7. QUARTERLI WORK | | | | |
|--|----------------------------------|----------|-----------------------|--------|
| Field name | Data dictionary | Starting | Field | Data |
| | reference name | position | size | type |
| Full-quarter job creation for Male and Female and age 55-64 | FJC_A0A07 | 01512 | 4 | N |
| Full-quarter job creation for Male and Female and age 65-99 | FJC_A0A08 | 01524 | 4 | N |
| 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 | $\stackrel{\cdot}{4}$ | N |
| Full-quarter job creation for Male and age 35-44 | FJC_A1A05 | 01492 | $\overline{4}$ | 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 | $\overline{4}$ | N |
| Full-quarter job creation for Male and age 65-99 | FJC_A1A08 | 01528 | $\overline{4}$ | 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 | $\overline{4}$ | N |
| Full-quarter job destruction for Female and age 22-24 | FJD_A2A03 | 01688 | $\overline{4}$ | N |
| Full-quarter job destruction for Female and age 25-34 | FJD_A2A04 | 01700 | $\overline{4}$ | 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 | $\mathrm{FJD}_{-}\mathrm{A0A00}$ | 01644 | 4 | N |
| age 14-99 Full-quarter job destruction for Male and Female and | $\mathrm{FJD}_{-}\mathrm{A0A02}$ | 01668 | 4 | N |
| age 19-21 Full-quarter job destruction for Male and Female and | FJD_A0A03 | 01680 | 4 | N |
| age 22-24 Full-quarter job destruction for Male and Female and age 25-34 | FJD_A0A04 | 01692 | 4 | N |
| Full-quarter job destruction for Male and Female and age 35-44 | $\mathrm{FJD}_\mathrm{A0A05}$ | 01704 | 4 | N |
| 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 | $\mathrm{FJD}_\mathrm{A0A07}$ | 01728 | 4 | N |
| age 55-64 Full-quarter job destruction for Male and Female and | $\mathrm{FJD}_\mathrm{A0A08}$ | 01740 | 4 | N |
| age 65-99 Full-quarter job destruction for Male and age 14-18 | FJD_A1A01 | 01660 | 4 | NT |
| Full-quarter job destruction for Male and age 14-18 | FJD_A1A01 FJD_A1A00 | 01648 | 4 | N N |
| Full-quarter job destruction for Male and age 19-21 | FJD_A1A00 FJD_A1A02 | 01672 | $\frac{4}{4}$ | N |
| Full-quarter job destruction for Male and age 22-24 | FJD_A1A03 | 01672 | $\frac{4}{4}$ | 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_A1A04 FJD_A1A05 | 01708 | 4 | N |
| Full-quarter job destruction for Male and age 45-54 | FJD_A1A06 | 01708 | 4 | N |
| Full-quarter job destruction for Male and age 55-64 | FJD_A1A07 | 01720 | 4 | N |
| Full-quarter job destruction for Male and age 65-99 | FJD_A1A08 | 01732 | 4 | N |
| Full-quarter new hires for Female and age 14-18 | H3_A2A01 | 02420 | 4 | N |
| 2 and quarter from first for Fornance and ago 11 10 | 110-11-1101 | 02120 | 1 | 11 |

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| 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 | N |
| Full-quarter new hires for Male and age 22-24 | H3_A1A03 | 02440 | 4 | \mathbf{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 | <u> </u> |
|--|----------|
| Field size | Data |
| 4 4 | type |
| $\frac{1}{5}$ $\frac{4}{4}$ | N |
| 8 4 | N |
| 8 4 | N |
| 6 	 4 | N |
| | N N |
| | N |
| | N N |
| $egin{array}{cccc} 4 & 4 & 4 \\ 6 & 4 & \end{array}$ | N N |
| | N |
| | N N |
| | |
| | N |
| 8 4 | N |
| 3 4 | N |
|) 4 | N |
| 2 4 | N |
| 4 | N |
| 3 4 | N |
| 8 4 | N |
|) 4 | N |
| 2 4 | N |
|) 4 | N |
| 8 4 | N |
| 2 4 | N |
| 4 | N |
| 3 4 | N |
| 8 4 | N |
|) 4 | N |
| 2 4 | N |
| 4 | N |
| 4 | N |
| 2 4 | N |
| 6 4 | N |
| 8 4 | N |
|) 4 | N |
| 2 4 | N |
| 4 | N |
| 6 4 | N |
| 3 4 | N |
| 1 8 | A/N |
| 1 4 | N |
| 2 4 | N |
| 5 4 | N |
| 3 4 | N |
|) 4 | N |
| 3 | 4 |

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

| CHAPTER 7. QUARTERLY WORKFORCE INDICA. | | · · · · | | |
|--|-----------------|----------|-------|------|
| 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 | 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 | $\rm JF_A2A01$ | 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 | 00524 | 4 | N |
| · | | | | |

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 | \mathbf{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} |
| | | | | |

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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 | $\overline{4}$ | 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 | $\overline{4}$ | 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 | 02144 | 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 | | 02130 02148 | | N |
| - | S_A0A06 | 02148 02160 | $\frac{4}{4}$ | N |
| Separations for Male and Female and age 55-64 | S_A0A07 | 02160 02172 | | |
| Separations for Male and Female and age 65-99 | S_A0A08 | | 4 | N |
| 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 | | | Field | Data |
|---|--------------------------------|-------------------|-------|--------|
| Field name | Data dictionary reference name | Starting 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 Sum of log of earnings of beginning-of-period employ- | LNWB_A2A03 | 05468 | 4 | N |
| ment for Female and age 22-2 | | | | |
| Sum of log of earnings of beginning-of-period employment for Female and age 25-3 | LNWB_A2A04 | 05480 | 4 | N |
| 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 employ- | LNWB_A2A06 | 05504 | 4 | N |
| ment for Female and age 45-5 | LNWB_A2A00 | 00004 | 4 | 11 |
| Sum of log of earnings of beginning-of-period employment for Female and age 55-6 | LNWB_A2A07 | 05516 | 4 | N |
| 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 employ- | LNWB_A0A01 | 05436 | 4 | N |
| ment for Male and Female and | | | | |
| Sum of log of earnings of beginning-of-period employment for Male and Female and | LNWB_A0A00 | 05424 | 4 | N |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A0A02 | 05448 | 4 | N |
| ment for Male and Female and Sum of log of earnings of beginning-of-period employ- | LNWB_A0A03 | 05460 | 4 | N |
| ment for Male and Female and Sum of log of earnings of beginning-of-period employ- | LNWB_A0A04 | 05472 | 4 | N |
| ment for Male and Female and | | | | |
| Sum of log of earnings of beginning-of-period employment for Male and Female and | LNWB_A0A05 | 05484 | 4 | N |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A0A06 | 05496 | 4 | N |
| ment for Male and Female and Sum of log of earnings of beginning-of-period employ- | LNWB_A0A07 | 05508 | 4 | N |
| ment for Male and Female and | | | | |
| Sum of log of earnings of beginning-of-period employment for Male and Female and | LNWB_A0A08 | 05520 | 4 | N |
| 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 employ- | LNWB_A1A00 | 05428 | 4 | N |
| ment for Male and age 14-99 Sum of log of earnings of beginning-of-period employ- | LNWB_A1A02 | 05452 | 4 | N |
| ment for Male and age 19-21 | LNWD_A1AU2 | 00402 | 4 | 11 |

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

| CHAPTER 7. QUARTERLY WORKFORCE INDICA | | · · · | | |
|---|-----------------|----------|-------|-------------|
| Field name | Data dictionary | Starting | Field | Data |
| | reference name | position | size | type |
| Sum of log of earnings of beginning-of-period employment for Male and age 22-24 | LNWB_A1A03 | 05464 | 4 | N |
| 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 | 11 |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A1A05 | 05488 | 4 | N |
| ment for Male and age 35-44 | LIWD_IIII00 | 09400 | 4 | 11 |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A1A06 | 05500 | 4 | N |
| ment for Male and age 45-54 | ENVERTITION | 00000 | 1 | 11 |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A1A07 | 05512 | 4 | N |
| ment for Male and age 55-64 | | | | |
| Sum of log of earnings of beginning-of-period employ- | LNWB_A1A08 | 05524 | 4 | N |
| ment for Male and age 65-99 | | | | |
| Sum of log of earnings of end-of-period employment | LNWE_A2A01 | 05984 | 4 | N |
| for Female and age 14-18 | | | | |
| Sum of log of earnings of end-of-period employment | LNWE_A2A00 | 05972 | 4 | N |
| for Female and age 14-99 | | | | |
| Sum of log of earnings of end-of-period employment | $LNWE_A2A02$ | 05996 | 4 | N |
| for Female and age 19-21 | | | | |
| Sum of log of earnings of end-of-period employment | LNWE_A2A03 | 06008 | 4 | N |
| for Female and age 22-24 | | | | |
| Sum of log of earnings of end-of-period employment | $LNWE_A2A04$ | 06020 | 4 | N |
| for Female and age 25-34 | 10107 | 0.0000 | | 3.7 |
| Sum of log of earnings of end-of-period employment | $LNWE_A2A05$ | 06032 | 4 | N |
| for Female and age 35-44 | 4040C | 00044 | 4 | λT |
| Sum of log of earnings of end-of-period employment for Female and age 45-54 | LNWE_A2A06 | 06044 | 4 | N |
| Sum of log of earnings of end-of-period employment | LNWE_A2A07 | 06056 | 4 | N |
| for Female and age 55-64 | LNWE_AZAU1 | 00030 | 4 | 11 |
| Sum of log of earnings of end-of-period employment | LNWE_A2A08 | 06068 | 4 | N |
| for Female and age 65-99 | EI(WE_1121100 | 00000 | | 1, |
| Sum of log of earnings of end-of-period employment | LNWE_A0A01 | 05976 | 4 | N |
| for Male and Female and age 1 | | 000,0 | _ | |
| 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 | A O A O = | 0.00.40 | | N. T |
| Sum of log of earnings of end-of-period employment | $LNWE_A0A07$ | 06048 | 4 | N |
| for Male and Female and age 5 | LNWD 40400 | 00000 | 4 | ™ T |
| Sum of log of earnings of end-of-period employment | LNWE_A0A08 | 06060 | 4 | N |
| for Male and Female and age 6 | LNWE_A1A01 | 05980 | 4 | N |
| Sum of log of earnings of end-of-period employment for Male and age 14-18 | LIN W E_A1AU1 | 09800 | 4 | 1N |
| tor maic and age 14-10 | | | | |

| 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_ATAUU | 05900 | 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_ATA05 | 00004 | 4 | 11 |
| Sum of log of earnings of end-of-period employment | LNWE_A1A04 | 06016 | 4 | N |
| for Male and age 25-34 | LIVWE_ITITO4 | 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 | 1, |
| Sum of log of earnings of end-of-period employment | LNWE_A1A06 | 06040 | 4 | N |
| for Male and age 45-54 | LIVE LITTIO | 00010 | 1 | 1, |
| Sum of log of earnings of end-of-period employment | LNWE_A1A07 | 06052 | 4 | N |
| for Male and age 55-64 | LIVWE_ITITO | 00002 | - | 1, |
| Sum of log of earnings of end-of-period employment | LNWE_A1A08 | 06064 | 4 | N |
| for Male and age 65-99 | LIVWE_ITITIOO | 40004 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A01 | 06524 | 4 | N |
| Female and age 14-18 | LNWF_AZAUI | 00524 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A00 | 06512 | 4 | N |
| Female and age 14-99 | LNWF_AZAOO | 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 | 00000 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A03 | 06548 | 4 | N |
| Female and age 22-24 | LNWF_AZAU3 | 00046 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A04 | 06560 | 4 | N |
| Female and age 25-34 | LNWF_AZA04 | 00000 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A05 | 06572 | 4 | N |
| Female and age 35-44 | LNWF_AZAOO | 00372 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A06 | 06584 | 4 | N |
| Female and age 45-54 | LNWF_AZAOO | 00004 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A07 | 06596 | 4 | N |
| Female and age 55-64 | LNWF_AZAUI | 00590 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A2A08 | 06608 | 4 | N |
| Female and age 65-99 | LNWF_AZAUO | 00008 | 4 | 11 |
| 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 | 00504 | 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 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A03 | 06540 | 4 | N |
| Male and Female and age 22 | LNWF_AUAU3 | 00540 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A04 | 06552 | 4 | N |
| Male and Female and age 25 | LNWF_A0A04 | 00002 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A05 | 06564 | 4 | N |
| Male and Female and age 35 | TUML TUMOO | 00504 | 4 | 1.1 |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A06 | 06576 | 4 | N |
| Male and Female and age 45 | LNWF_AUAUU | 00970 | 4 | 1N |
| · · | LANGE ACAOT | UGEOO | А | NT |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A07 | 06588 | 4 | N |
| Male and Female and age 55 | | | | |
| | | | | |

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| E' 11 | | (• / | D: 11 | D / |
|---|--------------------------------|-------------------|---------------|--------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Sum of log of earnings of full-quarter employment for | LNWF_A0A08 | 06600 | size 4 | type N |
| Male and Female and age 65 | LNWF_AUAU0 | 00000 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A01 | 06520 | 4 | N |
| Male and age 14-18 | LNWF_AIAUI | 00520 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A00 | 06508 | 4 | N |
| Male and age 14-99 | LIVWF 27417400 | 00500 | 4 | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A02 | 06532 | 4 | N |
| Male and age 19-21 | LIVWI _IIII102 | 00002 | - | 11 |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A03 | 06544 | 4 | N |
| Male and age 22-24 | 2111100 | 00011 | - | |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A04 | 06556 | 4 | N |
| Male and age 25-34 | | 00000 | - | |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A05 | 06568 | 4 | N |
| Male and age 35-44 | 21,111 | 00000 | - | - 1 |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A06 | 06580 | 4 | N |
| Male and age 45-54 | EIVWI EIIIII00 | 00000 | - | 1, |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A07 | 06592 | 4 | N |
| Male and age 55-64 | Envir Errito. | 00002 | - | 1, |
| Sum of log of earnings of full-quarter employment for | LNWF_A1A08 | 06604 | 4 | N |
| Male and age 65-99 | 21,111212100 | 00001 | - | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A01 | 05552 | 4 | N |
| ployment for Female and age | 21,112101 | 00002 | - | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A00 | 05540 | 4 | N |
| ployment for Female and age | | 000 20 | _ | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A02 | 05564 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A03 | 05576 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A04 | 05588 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A05 | 05600 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A06 | 05612 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A07 | 05624 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A2A08 | 05636 | 4 | N |
| ployment for Female and age | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A0A01 | 05544 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | $LNWBLG_A0A00$ | 05532 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | $LNWBLG_A0A02$ | 05556 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | $LNWBLG_A0A03$ | 05568 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A0A04 | 05580 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | $LNWBLG_A0A05$ | 05592 | 4 | N |
| ployment for Male and Female | | | | |
| | | | | |

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| Field name | _ | | Field | Data |
|--|---|-------------------|-------|------------|
| Field name | Data dictionary reference name | Starting position | size | type |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A0A06 | 05604 | 4 | N |
| ployment for Male and Female | LIVW DLG_1101100 | 40004 | - | 11 |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A0A07 | 05616 | 4 | N |
| ployment for Male and Female | 111111111111111111111111111111111111111 | 00010 | - | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A0A08 | 05628 | 4 | N |
| ployment for Male and Female | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A01 | 05548 | 4 | N |
| ployment for Male and age 14 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A00 | 05536 | 4 | N |
| ployment for Male and age 14 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A02 | 05560 | 4 | N |
| ployment for Male and age 19 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A03 | 05572 | 4 | N |
| ployment for Male and age 22 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A04 | 05584 | 4 | N |
| ployment for Male and age 25 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A05 | 05596 | 4 | N |
| ployment for Male and age 35 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A06 | 05608 | 4 | N |
| ployment for Male and age 45 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A07 | 05620 | 4 | N |
| ployment for Male and age 55 | | | | |
| Sum of log of lag earnings of beginning-of-period em- | LNWBLG_A1A08 | 05632 | 4 | N |
| ployment for Male and age 65 | | | | |
| Sum of log of lag earnings of full-quarter employment | $LNWFLG_A2A01$ | 06740 | 4 | N |
| for Female and age 14-18 | | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A00 | 06728 | 4 | N |
| for Female and age 14-99 | | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A02 | 06752 | 4 | N |
| for Female and age 19-21 | | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A03 | 06764 | 4 | N |
| for Female and age 22-24 | | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A04 | 06776 | 4 | N |
| for Female and age 25-34 | | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A05 | 06788 | 4 | N |
| for Female and age 35-44 | 10100 | | | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A06 | 06800 | 4 | N |
| for Female and age 45-54 | A O A O 7 | 0.001.0 | 4 | 3.7 |
| Sum of log of lag earnings of full-quarter employment | $LNWFLG_A2A07$ | 06812 | 4 | N |
| for Female and age 55-64 | | 00004 | 4 | ЪТ |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A2A08 | 06824 | 4 | N |
| for Female and age 65-99 | ******* a A O A O 1 | 0.6720 | 4 | TN.T |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A01 | 06732 | 4 | N |
| for Male and Female and ag | | 06700 | 1 | N T |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A00 | 06720 | 4 | N |
| for Male and Female and ag Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A02 | 06744 | 1 | N |
| for Male and Female and ag | LNWFLG_AUAUZ | 00744 | 4 | IN |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A03 | 06756 | 4 | N |
| for Male and Female and ag | DIVWELG_AUAUO | 00730 | 4 | 11 |
| tor maic and remaic and ag | | | | |

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

| CHAITER 7. QUARTERLY WORKFORCE INDICA | | (• / | D: 11 | D / |
|---|---|-------------------|---------------|--------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A04 | 06768 | 4 | type N |
| for Male and Female and ag | LIWFLG_AUAU4 | 00708 | 4 | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A05 | 06780 | 4 | N |
| for Male and Female and ag | LIVWIEGEITOITOO | 00100 | - | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A06 | 06792 | 4 | N |
| for Male and Female and ag | LIVWI EGETTOTIOO | 00102 | | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A07 | 06804 | 4 | N |
| for Male and Female and ag | LIVWI EGETTOTIOT | 00001 | | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A0A08 | 06816 | 4 | N |
| for Male and Female and ag | 111111111111111111111111111111111111111 | 00010 | - | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A01 | 06736 | 4 | N |
| for Male and age 14-18 | 2111101 | 00.00 | - | |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A00 | 06724 | 4 | N |
| for Male and age 14-99 | DIVWI BOZIIIII00 | 00121 | - | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A02 | 06748 | 4 | N |
| for Male and age 19-21 | LIVWPEG_ITITIO2 | 00140 | - | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A03 | 06760 | 4 | N |
| for Male and age 22-24 | LIVWI LG_1111100 | 00100 | 4 | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A04 | 06772 | 4 | N |
| for Male and age 25-34 | LIVWI LIGHTITU T | 00112 | - | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A05 | 06784 | 4 | N |
| for Male and age 35-44 | LIVWI LG_1111100 | 00104 | 4 | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A06 | 06796 | 4 | N |
| for Male and age 45-54 | LIWFLG_ATAOU | 00190 | 4 | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A07 | 06808 | 4 | N |
| for Male and age 55-64 | LINWFLG_ATAUT | 00000 | 4 | 11 |
| Sum of log of lag earnings of full-quarter employment | LNWFLG_A1A08 | 06820 | 4 | N |
| for Male and age 65-99 | LIVWI LG_1111100 | 00020 | 4 | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A01 | 06092 | 4 | N |
| ment for Female and age 14-18 | ENWEED_1121101 | 00032 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A00 | 06080 | 4 | N |
| ment for Female and age 14-99 | ENWEED_1121100 | 00000 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A02 | 06104 | 4 | N |
| ment for Female and age 19-21 | ENWEED_1121102 | 00104 | 4 | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A03 | 06116 | 4 | N |
| ment for Female and age 22-24 | LIVWEED_1121100 | 00110 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A04 | 06128 | 4 | N |
| ment for Female and age 25-34 | DIVWEDD_1121104 | 00120 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A05 | 06140 | 4 | N |
| ment for Female and age 35-44 | LIVWELD_I121100 | 00140 | 4 | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A06 | 06152 | 4 | N |
| ment for Female and age 45-54 | ENWEED_1121100 | 00102 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A07 | 06164 | 4 | N |
| ment for Female and age 55-64 | DIVWEDD | 00101 | | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A2A08 | 06176 | 4 | N |
| ment for Female and age 65-99 | ENWEED_1121100 | 00110 | - | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A0A01 | 06084 | 4 | N |
| ment for Male and Female and | 21,112222101101 | 00004 | T | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A0A00 | 06072 | 4 | N |
| ment for Male and Female and | DI WEDD TIOITOU | 00012 | T | 11 |
| mond for filmo und I officio und | | | | |

| Field name | | Storting | | T |
|---|---|-------------------|---------------|--------------|
| Field name | Data dictionary reference name | Starting position | Field size | Data type |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A0A02 | 06096 | 4 | N |
| ment for Male and Female and | EI(WEDD_1101102 | 00030 | 7 | 11 |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A0A03 | 06108 | 4 | N |
| ment for Male and Female and | LIWELD_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 | LNWELD_AUAU4 | 00120 | 4 | 11 |
| | LNWELD_A0A05 | 06132 | 4 | N |
| Sum of log of lead earnings of end-of-period employment for Male and Female and | LNWELD_AUAU3 | 00132 | 4 | IN |
| | LNWELD_A0A06 | 06144 | 4 | N |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_AUAU0 | 06144 | 4 | IN |
| ment for Male and Female and | ******* A O A O 7 | 00150 | 4 | NT. |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A0A07 | 06156 | 4 | N |
| ment for Male and Female and | 4.0.4.00 | 0.01.00 | | 3.7 |
| 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 | N |
| ment for Male and age 14-18 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A00 | 06076 | 4 | N |
| ment for Male and age 14-99 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A02 | 06100 | 4 | \mathbf{N} |
| ment for Male and age 19-21 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A03 | 06112 | 4 | N |
| ment for Male and age 22-24 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A04 | 06124 | 4 | 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 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A06 | 06148 | 4 | N |
| ment for Male and age 45-54 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A07 | 06160 | 4 | N |
| ment for Male and age 55-64 | | | | |
| Sum of log of lead earnings of end-of-period employ- | LNWELD_A1A08 | 06172 | 4 | N |
| ment for Male and age 65-99 | | | | |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A01 | 06632 | 4 | N |
| for Female and age 14-18 | ENWIBBERIE | 00002 | - | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A00 | 06620 | 4 | N |
| for Female and age 14-99 | ENWIEEERIE | 00020 | - | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A02 | 06644 | 4 | N |
| for Female and age 19-21 | ENWIEDZITZITOZ | 00011 | 1 | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A03 | 06656 | 4 | N |
| for Female and age 22-24 | LIWFLD_AZA05 | 00000 | 4 | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A04 | 06668 | 4 | N |
| for Female and age 25-34 | LNWFLD_A2A04 | 00008 | 4 | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A05 | 06680 | 4 | N |
| for Female and age 35-44 | LNWFLD_A2AU0 | 00000 | 4 | 1N |
| Sum of log of lead earnings of full-quarter employment | LMWELD ADAGE | 06609 | 1 | ™ T |
| | LNWFLD_A2A06 | 06692 | 4 | N |
| for Female and age 45-54 | 1 NUMBER A D A O Z | 0.6704 | 4 | ™ T |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A07 | 06704 | 4 | N |
| for Female and age 55-64 | 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N | 0.071.0 | 4 | ™ T |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A2A08 | 06716 | 4 | N |
| for Female and age 65-99 | | | | |
| | | | | |

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| CHAITER 7. QUARTERLY WORKFORCE INDICA | | · · · · · · | · · | T-5 : |
|--|--|-----------------|--------|-------|
| Field name | Data dictionary | Starting | Field | Data |
| Cum of log of load company of full guarter are law- | reference name | position | size 4 | type |
| Sum of log of lead earnings of full-quarter employment for Male and Female and a | LNWFLD_A0A01 | 06624 | 4 | IN |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A0A00 | 06612 | 4 | N |
| for Male and Female and a | LNWFLD_AUAUU | 00012 | 4 | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A0A02 | 06636 | 4 | N |
| for Male and Female and a | ENWI ED ET OTTOZ | 00000 | - | 11 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A0A03 | 06648 | 4 | N |
| for Male and Female and a | ENWI ED ENTOTIO | 00010 | - | 11 |
| 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_A0A08 | 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 | 4.4.4.0.0 | 0.0000 | 4 | 3.7 |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A1A06 | 06688 | 4 | N |
| for Male and age 45-54 | A 1 A 0 7 | 0.6700 | 4 | 3.T |
| Sum of log of lead earnings of full-quarter employment | LNWFLD_A1A07 | 06700 | 4 | N |
| for Male and age 55-64 | LAWRED A 1 A 00 | 06719 | 4 | NT |
| Sum of log of lead earnings of full-quarter employment for Male and age 65-99 | LNWFLD_A1A08 | 06712 | 4 | N |
| ~ | WC ADAO1 | 04580 | 4 | N |
| Total earnings of separations for Female and age 14-18 | WS_A2A01 | 04980 | 4 | IN |
| Total earnings of separations for Female and age 14-99 | WS_A2A00 | 04568 | 4 | N |
| Total earnings of separations for Female and age 14-99 | WS_A2A00 | 04506 | 4 | IN |
| Total earnings of separations for Female and age 19-21 | WS_A2A02 | 04592 | 4 | N |
| Total carmings of separations for Temate and age 13-21 | VV D_1121102 | 04002 | 4 | 11 |
| Total earnings of separations for Female and age 22-24 | WS_A2A03 | 04604 | 4 | N |
| Total carmings of separations for Temate and age 22 24 | W 5_1121100 | 04004 | - | 11 |
| Total earnings of separations for Female and age 25-34 | WS_A2A04 | 04616 | 4 | N |
| Total cultures of populations for Foliate and age 20 of | ,, , , , , , , , , , , , , , , , , , , | 01010 | - | |
| Total earnings of separations for Female and age 35-44 | WS_A2A05 | 04628 | 4 | N |
| 0 | | 5 10 2 0 | * | |
| Total earnings of separations for Female and age 45-54 | WS_A2A06 | 04640 | 4 | N |
| | | | | |
| | | | | |

| CHAPTER 7. QUARTERLY WORF | Data dictionary | S - SEINUNTT Starting | FILE (QW Field | Data |
|---|-----------------|-----------------------|-------------------|--------------|
| rieid name | reference name | position | size | type |
| Total earnings of separations for Female and age 55-64 | WS_A2A07 | 04652 | 4 | N |
| 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 age 14-99 | WS_A0A00 | 04560 | 4 | N |
| Total earnings of separations for Male and Female and age 19-21 | WS_A0A02 | 04584 | 4 | N |
| 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 age 55-64 | WS_A0A07 | 04644 | 4 | N |
| Total earnings of separations for Male and Female and age 65-99 | WS_A0A08 | 04656 | 4 | N |
| Total earnings of separations for Male and age 14-18 | WS_A1A01 | 04576 | 4 | N |
| Total earnings of separations for Male and age 14-99 | WS_A1A00 | 04564 | 4 | \mathbf{N} |
| Total earnings of separations for Male and age 19-21 | 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 | \mathbf{N} |
| Total earnings of separations for Male and age 45-54 | WS_A1A06 | 04636 | 4 | \mathbf{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 | \mathbf{N} |
| Total earnings of separations from full-quarter status (most recent full quarter | WFS_A2A01 | 04796 | 4 | N |
| 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 | WFS_A2A05 | 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 |

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| 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 | WFS_AUAUI | 04700 | 4 | N16 |
| (most recent full quarter | WEC ADADO | 0.4776 | 4 | MOO |
| Total earnings of separations from full-quarter status | WFS_A0A00 | 04776 | 4 | N99 |
| (most recent full quarter | MEG ACAGO | 0.4000 | 4 | NO1 |
| Total earnings of separations from full-quarter status | WFS_A0A02 | 04800 | 4 | N21 |
| (most recent full quarter | HIEG ACAOS | 0.4010 | | NOA |
| 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 ACAGE | 0.40.40 | | 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 | 4 | NI 0.4 |
| Total earnings of separations from full-quarter status | WFS_A0A07 | 04860 | 4 | N64 |
| (most recent full quarter | THE A A A A A | 0.40=0 | | 3.100 |
| Total earnings of separations from full-quarter status | WFS_A0A08 | 04872 | 4 | N99 |
| (most recent full quarter | TITE A A A OA | 0.4500 | | 3.7 |
| Total earnings of separations from full-quarter status | WFS_A1A01 | 04792 | 4 | N |
| (most recent full quarter | TITE A A A O O | 0.4500 | | 3.7 |
| Total earnings of separations from full-quarter status | WFS_A1A00 | 04780 | 4 | N |
| (most recent full quarter | ********** | 0.400.4 | | |
| Total earnings of separations from full-quarter status | WFS_A1A02 | 04804 | 4 | N |
| (most recent full quarter | ********** | 0.404.0 | | |
| Total earnings of separations from full-quarter status | WFS_A1A03 | 04816 | 4 | N |
| (most recent full quarter | TTTT | 0.4000 | | |
| Total earnings of separations from full-quarter status | WFS_A1A04 | 04828 | 4 | N |
| (most recent full quarter | ****** | 0.40.40 | | |
| 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 | | | | |
| | | | | |

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| Total payroll of accessions for Male and Female and age 29-24 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A02 MA_A0A03 MA_A0A003 | CHAPTER 7. QUARTERLY WORK | | | | |
|--|---|------------------------------|----------|-------|--------------|
| Total payroll of accessions for Male and Female and age 19-21 A N age 19-21 A N age 22-24 A N age 25-34 A N age 25-34 A N age 25-34 A N age 35-44 A N age 35-64 A N age 35-44 A N age 35-64 A N age 35-44 A N age 35-64 A N age 35-6 | Field name | Data dictionary | Starting | Field | Data |
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| 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 22-24 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_A2A06 03344 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03288 4 N Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N Total payroll of all employees for Male and Female and W1_A0A03 03300 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 22-24 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_A2A06 03344 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03288 4 N Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | | | | | |
| Total payroll of all employees for Female and age 22-24 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_A2A06 03344 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 W1_A0A01 03276 4 N Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03288 4 N Total payroll of all employees for Male and Female and W1_A0A02 03388 4 N Total payroll of all employees for Male and Female and W1_A0A03 03300 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 22-24 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_A2A06 03344 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 W1_A0A01 03276 4 N Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N Total payroll of all employees for Male and Female and W1_A0A00 03288 4 N Total payroll of all employees for Male and Female and W1_A0A02 03388 4 N Total payroll of all employees for Male and Female and W1_A0A03 03300 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 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 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payroll of all employees for Female and age 22-24 | $W1_A2A03$ | 03308 | 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | | TITA A Q A Q A | 00000 | | N.T. |
| 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 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 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payroll of all amplayous for Famala and aga 25.44 | W1 A2A05 | 03333 | 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payron of an employees for Female and age 55-44 | W1_A2A05 | 05552 | 4 | 11 |
| 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 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 65-99 W1_A2A08 03368 4 N Total payroll of all employees for Male and Female and W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payron of an employees for Female and age to of | VV 1211 2 1100 | 00011 | - | 1, |
| 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 W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payroll of all employees for Female and age 55-64 | $W1_A2A07$ | 03356 | 4 | N |
| Total payroll of all employees for Male and Female and W1_A0A01 03276 4 N age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | r vy v v v v v v v v v v v v v v v v v v | | | | |
| age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payroll of all employees for Female and age 65-99 | $W1_A2A08$ | 03368 | 4 | \mathbf{N} |
| age 14-18 Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | - • | | | | |
| Total payroll of all employees for Male and Female and W1_A0A00 03264 4 N age 14-99 Total payroll of all employees for Male and Female and W1_A0A02 03288 4 N age 19-21 Total payroll of all employees for Male and Female and W1_A0A03 03300 4 N | Total payroll of all employees for Male and Female and | $W1_A0A01$ | 03276 | 4 | \mathbf{N} |
| age 14-99 Total payroll of all employees for Male and Female and $W1_A0A02$ 03288 4 N age 19-21 Total payroll of all employees for Male and Female and $W1_A0A03$ 03300 4 N | age 14-18 | | | | |
| Total payroll of all employees for Male and Female and $W1_A0A02$ 03288 4 N age 19-21 Total payroll of all employees for Male and Female and $W1_A0A03$ 03300 4 N | Total payroll of all employees for Male and Female and | W1_A0A00 | 03264 | 4 | \mathbf{N} |
| age 19-21 Total payroll of all employees for Male and Female and $W1_A0A03$ 03300 4 N | · · | | | | |
| Total payroll of all employees for Male and Female and $W1_A0A03$ 03300 4 N | | $W1_A0A02$ | 03288 | 4 | N |
| | · · | | | | |
| age 22-24 | - * | $W1_A0A03$ | 03300 | 4 | N |
| | age 22-24 | | | | |

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

| CHAITER 7. QUARTERLY WORKFORCE INDICA | | (• / | D. 11 | T-5 : |
|---|-----------------|----------|-------|-------|
| 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 | W1_A0A08 | 03360 | 4 | N |
| age 65-99 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 | | | | Data |
|---|--------------------------------|-------------------|---------------|------------|
| Field name | Data dictionary reference name | Starting position | Field size | type |
| Total payroll of end-of-period employees for Male and | W2_A0A06 | 03444 | 4 | N |
| Female and age 45-54 | | | | |
| 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 | TTT0 1 1 1 0 1 | | | |
| Total payroll of end-of-period employees for Male and | W2_A1A04 | 03424 | 4 | N |
| age 25-34 | TTT0 | 00.400 | i | 3.7 |
| Total payroll of end-of-period employees for Male and | $W2_A1A05$ | 03436 | 4 | N |
| age 35-44 Total payroll of end-of-period employees for Male and | W2_A1A06 | 02440 | 4 | NT |
| 1 0 | W Z_A1A00 | 03448 | 4 | N |
| age 45-54 Total payroll of end-of-period employees for Male and | W2_A1A07 | 03460 | 4 | N |
| age 55-64 | W 2_A1A01 | 05400 | 4 | 11 |
| Total payroll of end-of-period employees for Male and | W2_A1A08 | 03472 | 4 | N |
| age 65-99 | VV 2_1111100 | 05412 | 4 | 11 |
| Total payroll of full-quarter employees for Female and | W3_A2A01 | 03500 | 4 | N |
| age 14-18 | VV 0=1121101 | 00000 | 1 | 11 |
| Total payroll of full-quarter employees for Female and | W3_A2A00 | 03488 | 4 | N |
| age 14-99 | | | | |
| Total payroll of full-quarter employees for Female and | W3_A2A02 | 03512 | 4 | N |
| age 19-21 | | | | |
| Total payroll of full-quarter employees for Female and | W3_A2A03 | 03524 | 4 | N |
| age 22-24 | | | | |
| Total payroll of full-quarter employees for Female and | $W3_A2A04$ | 03536 | 4 | N |
| age 25-34 | | | | |
| Total payroll of full-quarter employees for Female and | $W3_A2A05$ | 03548 | 4 | N |
| age 35-44 | | | | |
| Total payroll of full-quarter employees for Female and | W3_A2A06 | 03560 | 4 | N |
| age 45-54 | | | | |
| 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 | III.0 A O A O 1 | 09.400 | 4 | NT |
| 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 | $W_2 \wedge 0 \wedge 00$ | 02400 | 1 | N T |
| Female and age 14-99 | W3_A0A00 | 03480 | 4 | N |
| Total payroll of full-quarter employees for Male and | W3_A0A02 | 03504 | 4 | N |
| Female and age 19-21 | W J_AUAU4 | 05504 | 4 | 1N |
| Total payroll of full-quarter employees for Male and | W3_A0A03 | 03516 | 4 | N |
| Female and age 22-24 | 11.0=11.011.00 | 03010 | 4 | 11 |
| 2011010 0114 050 22 21 | | | | |

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

| CHAITER 7. QUARTERED WORKFORCE INDICA | | (• / | | T |
|--|--------------------------------|-------------------|---------------|------|
| Field name | Data dictionary reference name | Starting position | Field size | Data |
| Total narmall of full quarter applicance for Mala and | | _ | | type |
| Total payroll of full-quarter employees for Male and Female and age 25-34 | W3_A0A04 | 03528 | 4 | N |
| Total payroll of full-quarter employees for Male and | W3_A0A05 | 03540 | 4 | N |
| Female and age 35-44 | W 3_110/103 | 03040 | 4 | 11 |
| Total payroll of full-quarter employees for Male and | W3_A0A06 | 03552 | 4 | N |
| Female and age 45-54 | ,, 02101100 | 00002 | - | -, |
| 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 | IIV9 A 1 A 0 4 | 02520 | 4 | N.T. |
| Total payroll of full-quarter employees for Male and | W3_A1A04 | 03532 | 4 | N |
| age 25-34 Total normall of full quarter application for Mala and | W/2 A1A0E | 03544 | 4 | N |
| Total payroll of full-quarter employees for Male and age 35-44 | W3_A1A05 | 05544 | 4 | 1N |
| Total payroll of full-quarter employees for Male and | W3_A1A06 | 03556 | 4 | N |
| age 45-54 | W 3_A1A00 | 03330 | 4 | 11 |
| Total payroll of full-quarter employees for Male and | W3_A1A07 | 03568 | 4 | N |
| age 55-64 | W 0=1111101 | 00000 | - | 11 |
| Total payroll of full-quarter employees for Male and | W3_A1A08 | 03580 | 4 | N |
| age 65-99 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A2A01 | 03608 | 4 | N |
| Female and age 14-18 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A2A00 | 03596 | 4 | N |
| Female and age 14-99 | | | | |
| Total payroll of new hires to full-quarter status for | $WH3_A2A02$ | 03620 | 4 | N |
| Female and age 19-21 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A2A03 | 03632 | 4 | N |
| Female and age 22-24 | | | | |
| Total payroll of new hires to full-quarter status for | $WH3_A2A04$ | 03644 | 4 | N |
| Female and age 25-34 | | 00050 | 4 | 3.7 |
| Total payroll of new hires to full-quarter status for | WH3_A2A05 | 03656 | 4 | N |
| Female and age 35-44 | WIII ADAOC | 02669 | 4 | NT. |
| Total payroll of new hires to full-quarter status for Female and age 45-54 | WH3_A2A06 | 03668 | 4 | N |
| Total payroll of new hires to full-quarter status for | WH3_A2A07 | 03680 | 4 | N |
| Female and age 55-64 | W110_A2A01 | 03000 | 4 | 11 |
| Total payroll of new hires to full-quarter status for | WH3_A2A08 | 03692 | 4 | N |
| Female and age 65-99 | ,, 110_11 2 1100 | 00002 | 1 | 1, |
| Total payroll of new hires to full-quarter status for | WH3_A0A01 | 03600 | 4 | N |
| Male and Female and age 14 | | 30000 | _ | = - |
| Total payroll of new hires to full-quarter status for | WH3_A0A00 | 03588 | 4 | N |
| Male and Female and age 14 | | | | |
| Č | | | | |

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

| CHAPTER 7. QUARTERLY WORK | | | , , - | |
|---|------------------|----------|-------|------|
| Field name | Data dictionary | Starting | Field | Data |
| | reference name | position | size | type |
| Total payroll of new hires to full-quarter status for | WH3_A0A02 | 03612 | 4 | N |
| Male and Female and age 19 | 11/110 A O A O O | 02694 | 4 | N.T. |
| Total payroll of new hires to full-quarter status for | WH3_A0A03 | 03624 | 4 | N |
| Male and Female and age 22 | THIS ASASA | 00000 | 4 | N.T. |
| Total payroll of new hires to full-quarter status for | WH3_A0A04 | 03636 | 4 | N |
| Male and Female and age 25 | | | | |
| Total payroll of new hires to full-quarter status for | $WH3_A0A05$ | 03648 | 4 | N |
| Male and Female and age 35 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A0A06 | 03660 | 4 | N |
| Male and Female and age 45 | | | | |
| Total payroll of new hires to full-quarter status for | $WH3_A0A07$ | 03672 | 4 | N |
| Male and Female and age 55 | | | | |
| Total payroll of new hires to full-quarter status for | $WH3_A0A08$ | 03684 | 4 | N |
| Male and Female and age 65 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A1A01 | 03604 | 4 | N |
| Male and age 14-18 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A1A00 | 03592 | 4 | N |
| Male and age 14-99 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A1A02 | 03616 | 4 | N |
| Male and age 19-21 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A1A03 | 03628 | 4 | N |
| Male and age 22-24 | | | | |
| Total payroll of new hires to full-quarter status for | WH3_A1A04 | 03640 | 4 | N |
| Male and age 25-34 | VV 11021111101 | 00010 | 1 | 11 |
| Total payroll of new hires to full-quarter status for | WH3_A1A05 | 03652 | 4 | N |
| Male and age 35-44 | W1102/11/100 | 00002 | - | 11 |
| Total payroll of new hires to full-quarter status for | WH3_A1A06 | 03664 | 4 | N |
| Male and age 45-54 | W1192/11/100 | 03004 | 4 | 11 |
| Total payroll of new hires to full-quarter status for | WH3_A1A07 | 03676 | 4 | N |
| Male and age 55-64 | WIIS_ATAUT | 03070 | 4 | 11 |
| | WIII 41400 | 02600 | 4 | NT |
| Total payroll of new hires to full-quarter status for | WH3_A1A08 | 03688 | 4 | N |
| Male and age 65-99 | THOA ASASI | 00000 | 4 | N.T. |
| Total payroll of transits to consecutive-quarter status | WCA_A2A01 | 03932 | 4 | N |
| for Female and age 14-18 | TTG 1 10100 | 00000 | | 3.7 |
| Total payroll of transits to consecutive-quarter status | WCA_A2A00 | 03920 | 4 | N |
| for Female and age 14-99 | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A2A02 | 03944 | 4 | N |
| for Female and age 19-21 | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A2A03 | 03956 | 4 | N |
| for Female and age 22-24 | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A2A04 | 03968 | 4 | N |
| for Female and age 25-34 | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A2A05 | 03980 | 4 | N |
| for Female and age 35-44 | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A2A06 | 03992 | 4 | N |
| for Female and age 45-54 | | | | |
| 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 | | | | |
| - | | | | |

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

| Field name | Data dictionary | Starting | Field | Data |
|---|-----------------|----------|-------|--------------|
| ried name | reference name | position | size | type |
| Total payroll of transits to consecutive-quarter status | WCA_A0A01 | 03924 | 4 | N |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A00 | 03912 | 4 | N |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A02 | 03936 | 4 | N |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A03 | 03948 | 4 | N |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A04 | 03960 | 4 | N |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A05 | 03972 | 4 | \mathbf{N} |
| for Male and Female and | | | | |
| Total payroll of transits to consecutive-quarter status | WCA_A0A06 | 03984 | 4 | \mathbf{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 | 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 | \mathbf{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 | THOA ALADO | 0.401.0 | | N .T |
| Total payroll of transits to consecutive-quarter status | WCA_A1A08 | 04012 | 4 | N |
| for Male and age 65-99 | TITTA AOAO1 | 0.40.40 | 4 | N.T. |
| Total payroll of transits to full-quarter status for Fe- | WFA_A2A01 | 04040 | 4 | N |
| male and age 14-18 | THEA ADADO | 0.4000 | 4 | ът |
| Total payroll of transits to full-quarter status for Fe- | WFA_A2A00 | 04028 | 4 | N |
| male and age 14-99 | WEA ADADO | 0.4050 | 4 | N.T. |
| Total payroll of transits to full-quarter status for Ferman and and 10.21 | WFA_A2A02 | 04052 | 4 | N |
| male and age 19-21 Total payroll of transits to full-quarter status for Fe- | WFA_A2A03 | 04064 | 4 | N |
| male and age 22-24 | WFA_AZAU3 | 04004 | 4 | 11 |
| Total payroll of transits to full-quarter status for Fe- | WFA_A2A04 | 04076 | 4 | N |
| male and age 25-34 | vv I'A_A4AU4 | 04070 | 4 | 1N |
| Total payroll of transits to full-quarter status for Fe- | WFA_A2A05 | 04088 | 4 | N |
| male and age 35-44 | WFA_A4AUU | 04000 | 4 | 1N |
| Total payroll of transits to full-quarter status for Fe- | WFA_A2A06 | 04100 | 4 | N |
| male and age 45-54 | WEILINAMUU | 04100 | 4 | 11 |
| more and age 10 01 | | | | |

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 | 4 | N |
| male and age 55-64 | *************************************** | 01112 | 1 | - 1 |
| 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- | MATERAL A O A O O | 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- | WIA_AUAU3 | 04030 | 4 | 11 |
| Total payroll of transits to full-quarter status for Male | WFA_A0A04 | 04068 | 4 | N |
| and Female and age 25- | *************************************** | 01000 | 1 | -11 |
| 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- | ***** | | | |
| Total payroll of transits to full-quarter status for Male | WFA_A1A01 | 04036 | 4 | N |
| and age 14-18 | TATEA ALAGO | 0.400.4 | 4 | N |
| Total payroll of transits to full-quarter status for Male and age 14-99 | WFA_A1A00 | 04024 | 4 | N |
| Total payroll of transits to full-quarter status for Male | WFA_A1A02 | 04048 | 4 | N |
| and age 19-21 | VV 171_7117102 | 04040 | 4 | 11 |
| Total payroll of transits to full-quarter status for Male | WFA_A1A03 | 04060 | 4 | N |
| and age 22-24 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0 1000 | - | |
| 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 | | | | |
| Total payroll of transits to full-quarter status for Male | WFA_A1A06 | 04096 | 4 | N |
| and age 45-54 | | | | |
| Total payroll of transits to full-quarter status for Male | WFA_A1A07 | 04108 | 4 | N |
| and age 55-64 | TTT-1 - 1 - 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - | 0.44.00 | | 3.7 |
| Total payroll of transits to full-quarter status for Male | WFA_A1A08 | 04120 | 4 | N |
| and age 65-99 | NIA A 2 A 0.1 | 04956 | 4 | N |
| Total periods of non-employment for accessions for Female and age 14-18 | NA_A2A01 | 04256 | 4 | N |
| Total periods of non-employment for accessions for Fe- | NA_A2A00 | 04244 | 4 | N |
| male and age 14-99 | 1,111,112,1100 | 01214 | т | 11 |
| 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 | | | | |
| Total periods of non-employment for accessions for Fe- | NA_A2A04 | 04292 | 4 | N |
| male and age 25-34 | | | | |
| | | | | |

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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 accessions for Fe- | NA_A2A05 | 04304 | 4 | N |
| male and age 35-44 | 11121121100 | 01001 | 1 | 1 |
| Total periods of non-employment for accessions for Fe- | NA_A2A06 | 04316 | 4 | N |
| male and age 45-54 | 11121121100 | 01010 | - | - |
| 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 | 1 |
| Male and Female and age 25-34 | | | | |
| Total periods of non-employment for accessions for | NA_A0A05 | 04296 | 4 | 1 |
| Male and Female and age 35-44 | | | | |
| Total periods of non-employment for accessions for | NA_A0A06 | 04308 | 4 | 1 |
| Male and Female and age 45-54 | | | | |
| Total periods of non-employment for accessions for | NA_A0A07 | 04320 | 4 | 1 |
| Male and Female and age 55-64 | | | | |
| Total periods of non-employment for accessions for | NA_A0A08 | 04332 | 4 | 1 |
| Male and Female and age 65-99 | | | | |
| Total periods of non-employment for accessions for | NA_A1A01 | 04252 | 4 | 1 |
| Male and age 14-18 | | | | |
| Total periods of non-employment for accessions for | NA_A1A00 | 04240 | 4 | 1 |
| Male and age 14-99 | | | | |
| Total periods of non-employment for accessions for | NA_A1A02 | 04264 | 4 | 1 |
| Male and age 19-21 | | | | |
| Total periods of non-employment for accessions for | NA_A1A03 | 04276 | 4 | 1 |
| Male and age 22-24 | | | | |
| Total periods of non-employment for accessions for | NA_A1A04 | 04288 | 4 | 1 |
| Male and age 25-34 | | | | |
| Total periods of non-employment for accessions for | NA_A1A05 | 04300 | 4 | 1 |
| Male and age 35-44 | | | | |
| Total periods of non-employment for accessions for | NA_A1A06 | 04312 | 4 | I |
| Male and age 45-54 | | | | |
| Total periods of non-employment for accessions for | NA_A1A07 | 04324 | 4 | I |
| Male and age 55-64 | | | | |
| Total periods of non-employment for accessions for | NA_A1A08 | 04336 | 4 | 1 |
| Male and age 65-99 | | | | |
| Total periods of non-employment for new hires (last | NH_A2A01 | 04364 | 4 | 1 |
| four quarters) for Female an | | | | |
| Total periods of non-employment for new hires (last | NH_A2A00 | 04352 | 4 | 1 |
| four quarters) for Female an | | | | |
| Total periods of non-employment for new hires (last | NH_A2A02 | 04376 | 4 | 1 |
| 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 type |
| Total periods of non-employment for new hires (last | NH_A2A03 | 04388 | 4 | N |
| four quarters) for Female an | | 0.2000 | _ | |
| Total periods of non-employment for new hires (last | NH_A2A04 | 04400 | 4 | N |
| four quarters) for Female an | | | | |
| Total periods of non-employment for new hires (last | NH_A2A05 | 04412 | 4 | N |
| four quarters) for Female an | | | | |
| Total periods of non-employment for new hires (last | NH_A2A06 | 04424 | 4 | N |
| four quarters) for Female an | | | | |
| 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 | NH_A0A02 | 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 | NTT 40400 | 0.444.0 | i | 3.7 |
| Total periods of non-employment for new hires (last | NH_A0A06 | 04416 | 4 | N |
| four quarters) for Male and | NIII AOAOZ | 0.4.400 | 4 | TNT. |
| Total periods of non-employment for new hires (last | NH_A0A07 | 04428 | 4 | N |
| four quarters) for Male and | NII AOAOO | 04440 | 4 | NT |
| Total periods of non-employment for new hires (last four quarters) for Male and | NH_A0A08 | 04440 | 4 | N |
| Total periods of non-employment for new hires (last | NH_A1A01 | 04360 | 4 | N |
| four quarters) for Male and | NII_ATAUT | 04300 | 4 | 1N |
| Total periods of non-employment for new hires (last | NH_A1A00 | 04348 | 4 | N |
| four quarters) for Male and | NII_AIA00 | 04546 | 4 | 11 |
| Total periods of non-employment for new hires (last | NH_A1A02 | 04372 | 4 | N |
| four quarters) for Male and | 1111111102 | 04312 | 4 | 11 |
| Total periods of non-employment for new hires (last | NH_A1A03 | 04384 | 4 | N |
| four quarters) for Male and | 1111111100 | 04904 | 1 | 11 |
| Total periods of non-employment for new hires (last | NH_A1A04 | 04396 | 4 | N |
| four quarters) for Male and | 111111111111111111111111111111111111111 | 01000 | 1 | 11 |
| Total periods of non-employment for new hires (last | NH_A1A05 | 04408 | 4 | N |
| four quarters) for Male and | 1,11=111100 | 01100 | - | |
| Total periods of non-employment for new hires (last | NH_A1A06 | 04420 | 4 | N |
| four quarters) for Male and | | | | |
| Total periods of non-employment for new hires (last | NH_A1A07 | 04432 | 4 | N |
| four quarters) for Male and | | | | |
| Total periods of non-employment for new hires (last | NH_A1A08 | 04444 | 4 | N |
| four quarters) for Male and | | | | |
| Total periods of non-employment for recalls (last four | NR_A2A01 | 04472 | 4 | N |
| quarters) for Female and | | | | |
| | | | | |

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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 | l of pe |
| quarters) for Female and | 1110_1121100 | 01100 | - | - |
| Total periods of non-employment for recalls (last four | NR_A2A02 | 04484 | 4 | ľ |
| quarters) for Female and | | | | |
| Total periods of non-employment for recalls (last four | NR_A2A03 | 04496 | 4 | ľ |
| quarters) for Female and | | | | |
| Total periods of non-employment for recalls (last four | NR_A2A04 | 04508 | 4 | 1 |
| 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 | 1 |
| quarters) for Male and Fe | | | | |
| Total periods of non-employment for recalls (last four | NR_A0A02 | 04476 | 4 | Ι |
| 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 | NRA0A04 | 04500 | 4 | I |
| quarters) for Male and Fe | | | | |
| Total periods of non-employment for recalls (last four | NR_A0A05 | 04512 | 4 | Ι |
| quarters) for Male and Fe | | | | _ |
| Total periods of non-employment for recalls (last four | NR_A0A06 | 04524 | 4 | Ι |
| quarters) for Male and Fe | 17D 1010D | 0.1700 | | _ |
| Total periods of non-employment for recalls (last four | NR_A0A07 | 04536 | 4 | 1 |
| quarters) for Male and Fe | 177 | 0.17.10 | | |
| Total periods of non-employment for recalls (last four | NR_A0A08 | 04548 | 4 | ľ |
| quarters) for Male and Fe | NID A 1 A 0.1 | 0.4.4.0.0 | 4 | 7 |
| Total periods of non-employment for recalls (last four | NR_A1A01 | 04468 | 4 | I |
| quarters) for Male and ag | NID A1A00 | 04456 | 4 | 7 |
| Total periods of non-employment for recalls (last four | NR_A1A00 | 04456 | 4 | I |
| quarters) for Male and ag | ND 41400 | 04490 | 4 | 7 |
| Total periods of non-employment for recalls (last four | NR_A1A02 | 04480 | 4 |] |
| quarters) for Male and ag Total periods of non-employment for recalls (last four | NR_A1A03 | 04492 | 4 | I |
| quarters) for Male and ag | NR_AIA05 | 04492 | 4 | 1 |
| rotal periods of non-employment for recalls (last four | NR_A1A04 | 04504 | 4 |] |
| quarters) for Male and ag | 1111_A1AU4 | 04004 | 4 | J |
| Fotal periods of non-employment for recalls (last four | NR_A1A05 | 04516 | 4 | Ι |
| quarters) for Male and ag | 1110_1111100 | 04010 | 4 | 1 |
| Fotal periods of non-employment for recalls (last four | NR_A1A06 | 04528 | 4 | I |
| quarters) for Male and ag | 1110_1111100 | 04020 | 4 | 1 |
| Fotal periods of non-employment for recalls (last four | NR_A1A07 | 04540 | 4 | I |
| quarters) for Male and ag | 1110-111101 | 04040 | 4 | 1 |

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

| Field name | | Starting | | |
|---|--------------------------------|----------|---------------|--------------|
| Field name | Data dictionary reference name | position | Field size | Data type |
| Total periods of non-employment for recalls (last four | NR_A1A08 | 04552 | 4 | N |
| quarters) for Male and ag | 11100 | 04002 | 4 | 11 |
| Total periods of non-employment for separations for | NS_A2A01 | 05012 | 4 | N |
| Female and age 14-18 | 11021121101 | 00012 | 1 | 11 |
| Total periods of non-employment for separations for | NS_A2A00 | 05000 | 4 | N |
| Female and age 14-99 | 11021121100 | 00000 | 1 | 1, |
| Total periods of non-employment for separations for | NS_A2A02 | 05024 | 4 | N |
| Female and age 19-21 | | 000 | _ | |
| Total periods of non-employment for separations for | NS_A2A03 | 05036 | 4 | N |
| Female and age 22-24 | | | | |
| Total periods of non-employment for separations for | NS_A2A04 | 05048 | 4 | N |
| Female and age 25-34 | | | | |
| Total periods of non-employment for separations for | NS_A2A05 | 05060 | 4 | N |
| Female and age 35-44 | | | | |
| Total periods of non-employment for separations for | NS_A2A06 | 05072 | 4 | N |
| Female and age 45-54 | | | | |
| Total periods of non-employment for separations for | NS_A2A07 | 05084 | 4 | \mathbf{N} |
| Female and age 55-64 | | | | |
| Total periods of non-employment for separations for | NS_A2A08 | 05096 | 4 | N |
| Female and age 65-99 | | | | |
| 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 | \mathbf{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 | | | | |
| Total periods of non-employment for separations for | NS_A0A05 | 05052 | 4 | N |
| Male and Female and age 35-4 | | | | |
| Total periods of non-employment for separations for | NS_A0A06 | 05064 | 4 | N |
| Male and Female and age 45-5 | 370 1010- | | | |
| Total periods of non-employment for separations for | NS_A0A07 | 05076 | 4 | N |
| Male and Female and age 55-6 | NO AOAOO | 05000 | 4 | 3.T |
| Total periods of non-employment for separations for | NS_A0A08 | 05088 | 4 | N |
| Male and Female and age 65-9 | NG A1 A01 | 05000 | 4 | N.T. |
| Total periods of non-employment for separations for | NS_A1A01 | 05008 | 4 | N |
| Male and age 14-18 | NC A1A00 | 04006 | 4 | NT |
| Total periods of non-employment for separations for Male and age 14-99 | NS_A1A00 | 04996 | 4 | N |
| Total periods of non-employment for separations for | NS_A1A02 | 05020 | 4 | N |
| Male and age 19-21 | 1102/11/102 | 05020 | 4 | 11 |
| Total periods of non-employment for separations for | NS_A1A03 | 05032 | 4 | N |
| Male and age 22-24 | 110_1111100 | 00002 | 4 | 11 |
| Total periods of non-employment for separations for | NS_A1A04 | 05044 | 4 | N |
| Male and age 25-34 | | 00011 | | ± 1 |
| Total periods of non-employment for separations for | NS_A1A05 | 05056 | 4 | N |
| Male and age 35-44 | | 00000 | _ | |
| | | | | |

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

| 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 | | | | |
| 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 |
| | | | | |

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| Field name | | | Field | |
|---|--------------------------------|-------------------|-------|--------------|
| 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 | 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 | 4 | N |
| lnwblg*lnwblg for Female and age 14-18 | LNWBLG2_A2A01 | 05876 | 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_A0A00 | 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 | 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 | 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_A0A07 | 05940 05952 | 4 | N |
| lnwblg*lnwblg for Male and age 14-18 | LNWBLG2_A1A01 | 05872 | 4 | N |
| lnwblg*lnwblg for Male and age 14-19 | 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 25 54 | 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*Inwe for Female and age 14-18 | LNWE2_A2A01 | 06200 | 4 | N |
| lnwe*lnwe for Female and age 14-16 | LNWE2_A2A01 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 | 06212 06224 | 4 | N |
| lnwe*lnwe for Female and age 25-34 | LNWE2_A2A03 | 06236 | 4 | N |
| lnwe*Inwe for Female and age 35-44 | LNWE2_A2A04 LNWE2_A2A05 | 06248 | 4 | N |
| lnwe*Inwe for Female and age 45-54 | LNWE2_A2A06 | 06260 | 4 | N |
| lnwe*Inwe for Female and age 45-54 | LNWE2_A2A00 LNWE2_A2A07 | 06200 06272 | 4 | N |
| lnwe*Inwe for Female and age 65-99 | LNWE2_A2A07 LNWE2_A2A08 | 06284 | 4 | N |
| mine mine for remaine and age 00-00 | E14 VV E12_11211100 | 00204 | 4 | 11 |

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| CHAITER 1. QUARTERED WORKFORCE INDICA | | | | |
|---|-----------------------|----------|-------|--------------|
| 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 | \mathbf{N} |
| lnwe*lnwe for Male and age 22-24 | $LNWE2_A1A03$ | 06220 | 4 | \mathbf{N} |
| lnwe*lnwe for Male and age 25-34 | $LNWE2_A1A04$ | 06232 | 4 | \mathbf{N} |
| lnwe*lnwe for Male and age 35-44 | $LNWE2_A1A05$ | 06244 | 4 | \mathbf{N} |
| lnwe*lnwe for Male and age 45-54 | $LNWE2_A1A06$ | 06256 | 4 | \mathbf{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 | \mathbf{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 14-99 | 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_A0A03 | 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 14-99 | LNWE_LNWELD_A1A00 | 06292 | 4 | N |
| lnwe*lnweld for Male and age 19-21 | $LNWE_LNWELD_A1A02$ | 06316 | 4 | N |
| lnwe*lnweld for Male and age 22-24 | LNWE_LNWELD_A1A03 | 06328 | 4 | \mathbf{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 | LNWE_LNWELD_A1A08 | 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 |
| Ŭ | | | | |

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| Field name | Data dictionary | | Field | Data |
|--|-----------------------------------|-------------------|---------------|------|
| r leid flame | reference name | Starting 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*Inweld 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 14-19 | LNWELD2_A0A01 | 06396 | 4 | N |
| lnweld*lnweld for Male and Female and age 19-21 | LNWELD2_A0A00 | 06420 | 4 | N |
| lnweld*lnweld for Male and Female and age 13-21 lnweld*lnweld for Male and Female and age 22-24 | LNWELD2_A0A02 | 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 25-54 | LNWELD2_A0A04 | 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 45-54 | LNWELD2_A0A00 | 06480 | 4 | N |
| lnweld*lnweld for Male and Female and age 65-99 | LNWELD2_A0A07 | 06492 | 4 | N |
| lnweld*lnweld for Male and age 14-18 | LNWELD2_A1A01 | 06412 | 4 | N |
| lnweld*lnweld for Male and age 14-18 | LNWELD2_A1A01 LNWELD2_A1A00 | 06400 | $\frac{4}{4}$ | N |
| lnweld*lnweld for Male and age 14-99 | LNWELD2_A1A00 LNWELD2_A1A02 | 06424 | | N |
| 9 | | | 4 | |
| lnweld*Inweld for Male and age 22-24 | $LNWELD2_A1A03$ $LNWELD2_A1A04$ | 06436 | 4 | N |
| lnweld*lnweld for Male and age 25-34 | | 06448 | 4 | N |
| lnweld*Inweld for Male and age 35-44 | 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*Inweld for Male and age 65-99 | LNWELD2_A1A08 | 06496 | 4 | N |
| lnwf*lnwf for Female and age 14-18 | LNWF2_A2A01 | 06848 | 4 | N |
| lnwf*lnwf for Female and age 14-99 | LNWF2_A2A00 | 06836 | 4 | N |
| lnwf*lnwf for Female and age 19-21 | LNWF2_A2A02 | 06860 | 4 | N |
| lnwf*lnwf for Female and age 22-24 | LNWF2_A2A03 | 06872 | 4 | N |
| lnwf*lnwf for Female and age 25-34 | LNWF2_A2A04 | 06884 | 4 | N |
| lnwf*lnwf for Female and age 35-44 | LNWF2_A2A05 | 06896 | 4 | N |
| lnwf*lnwf for Female and age 45-54 | LNWF2_A2A06 | 06908 | 4 | N |
| lnwf*lnwf for Female and age 55-64 | LNWF2_A2A07 | 06920 | 4 | N |
| lnwf*lnwf for Female and age 65-99 | $LNWF2_A2A08$ | 06932 | 4 | N |
| lnwf*lnwf for Male and Female and age 14-18 | $LNWF2_A0A01$ | 06840 | 4 | N |
| lnwf*lnwf for Male and Female and age 14-99 | $LNWF2_A0A00$ | 06828 | 4 | N |
| lnwf*lnwf for Male and Female and age 19-21 | $LNWF2_A0A02$ | 06852 | 4 | N |
| lnwf*lnwf for Male and Female and age 22-24 | $LNWF2_A0A03$ | 06864 | 4 | N |
| lnwf*lnwf for Male and Female and age 25-34 | $LNWF2_A0A04$ | 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 |
| ~ | | | | |

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

| Field name | , | | T2: -1.1 | D-4- |
|---|-------------------------------------|-------------------|---------------|--------------|
| rieid name | Data dictionary reference name | Starting position | Field size | Data type |
| lnwf*lnwfld for Female and age 14-99 | LNWF_LNWFLD_A2A00 | 07160 | size 4 | N |
| lnwf*lnwfld for Female and age 19-21 | LNWF_LNWFLD_A2A00 | 07184 | 4 | N |
| lnwf*lnwfld for Female and age 22-24 | LNWF_LNWFLD_A2A02 | 07194 | 4 | N |
| lnwf*lnwfld for Female and age 25-34 | LNWF_LNWFLD_A2A04 | $07190 \\ 07208$ | 4 | N |
| lnwf*lnwfld for Female and age 25-34 | LNWF_LNWFLD_A2A04 LNWF_LNWFLD_A2A05 | 07208 | 4 | N |
| ~ | | $07220 \\ 07232$ | | N N |
| lnwf*lnwfld for Female and age 45-54 | LNWF_LNWFLD_A2A06 | 07232 07244 | 4 | N N |
| lnwf*lnwfld for Female and age 55-64 | LNWF_LNWFLD_A2A07 | 07244 07256 | 4 | |
| lnwf*lnwfld for Female and age 65-99 | LNWF_LNWFLD_A2A08 LNWF_LNWFLD_A0A01 | $07250 \\ 07164$ | $\frac{4}{4}$ | N N |
| Inwf*Inwfid for Male and Female and age 14-18 | LNWF_LNWFLD_A0A01 | 07164 07152 | | N |
| lnwf*lnwfld for Male and Female and age 14-99 | | 07132 07176 | 4 | N |
| lnwf*lnwfld for Male and Female and age 19-21 | LNWF_LNWFLD_A0A02 | 07170 | 4 | N N |
| lnwf*lnwfld for Male and Female and age 22-24 | LNWF_LNWFLD_A0A03 | | 4 | |
| 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 | 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 | 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 14-99 | LNWF_LNWFLD_A1A00 | 07156 | 4 | N |
| lnwf*lnwfld for Male and age 19-21 | LNWF_LNWFLD_A1A02 | 07180 | 4 | N |
| lnwf*lnwfld for Male and age 22-24 | LNWF_LNWFLD_A1A03 | 07192 | 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 | 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 | N |
| lnwf*lnwflg for Female and age 55-64 | LNWF_LNWFLG_A2A07 | 07352 | 4 | 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 | 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 35-44 | LNWF_LNWFLG_A0A05 | 07320 | 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 |
| | | | | |

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| E' 11 | | | E III | |
|---|---------------------|----------|----------------|------|
| Field name | Data dictionary | Starting | Field | Data |
| 1 041 0 0 0 11 1 45 54 | reference name | position | size | type |
| lnwf*lnwflg for Male and age 45-54 | LNWF_LNWFLG_A1A06 | 07336 | 4 | N |
| 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 | 07360 | 4 | N |
| lnwfld*lnwfld for Female and age 14-18 | $lnwfld2_A2A01$ | 06956 | 4 | N |
| lnwfld*lnwfld for Female and age 14-99 | $LNWFLD2_A2A00$ | 06944 | 4 | N |
| lnwfld*lnwfld for Female and age 19-21 | $LNWFLD2_A2A02$ | 06968 | 4 | N |
| lnwfld*lnwfld for Female and age 22-24 | $LNWFLD2_A2A03$ | 06980 | 4 | N |
| lnwfld*lnwfld for Female and age 25-34 | $LNWFLD2_A2A04$ | 06992 | 4 | N |
| lnwfld*lnwfld for Female and age 35-44 | $LNWFLD2_A2A05$ | 07004 | 4 | N |
| lnwfld*lnwfld for Female and age 45-54 | $LNWFLD2_A2A06$ | 07016 | 4 | N |
| lnwfld*lnwfld for Female and age 55-64 | $LNWFLD2_A2A07$ | 07028 | 4 | N |
| lnwfld*lnwfld for Female and age 65-99 | LNWFLD2_A2A08 | 07040 | $\overline{4}$ | N |
| lnwfld*lnwfld for Male and Female and age 14-18 | LNWFLD2_A0A01 | 06948 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 14-99 | LNWFLD2_A0A00 | 06936 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 19-21 | LNWFLD2_A0A02 | 06960 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 22-24 | | 06972 | | N |
| · · · · · · · · · · · · · · · · · · · | LNWFLD2_A0A03 | | 4 | |
| lnwfld*lnwfld for Male and Female and age 25-34 | LNWFLD2_A0A04 | 06984 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 35-44 | LNWFLD2_A0A05 | 06996 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 45-54 | LNWFLD2_A0A06 | 07008 | 4 | N |
| lnwfld*lnwfld for Male and Female and age 55-64 | LNWFLD2_A0A07 | 07020 | 4 | N |
| 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 | $\overline{4}$ | 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_A2A06 | | 4 | N |
| lnwfld*lnwflg for Female and age 45-54 | | 07448 | | |
| lnwfld*lnwflg for Female and age 55-64 | LNWFLD_LNWFLG_A2A09 | 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 |
| 00 | | | | |

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| 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 | 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 | N |
| lnwflg*lnwflg for Female and age 19-21 | $LNWFLG2_A2A02$ | 07076 | 4 | N |
| lnwflg*lnwflg for Female and age 22-24 | $LNWFLG2_A2A03$ | 07088 | 4 | N |
| lnwflg*lnwflg for Female and age 25-34 | $LNWFLG2_A2A04$ | 07100 | 4 | 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 | N |
| lnwflg*lnwflg for Male and Female and age 19-21 | $LNWFLG2_A0A02$ | 07068 | 4 | N |
| lnwflg*lnwflg for Male and Female and age 22-24 | $LNWFLG2_A0A03$ | 07080 | 4 | N |
| lnwflg*lnwflg for Male and Female and age $25-34$ | $LNWFLG2_A0A04$ | 07092 | 4 | 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 | N |
| lnwflg*lnwflg for Male and Female and age 65-99 | $LNWFLG2_A0A08$ | 07140 | 4 | N |
| lnwflg*lnwflg for Male and age 14-18 | $LNWFLG2_A1A01$ | 07060 | 4 | N |
| lnwflg*lnwflg for Male and age 14-99 | $LNWFLG2_A1A00$ | 07048 | 4 | N |
| lnwflg*lnwflg for Male and age 19-21 | $LNWFLG2_A1A02$ | 07072 | 4 | 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 | \mathbf{N} |
| lnwflg*lnwflg for Male and age 65-99 | $LNWFLG2_A1A08$ | 07144 | 4 | N |
| qwi_wcf*qwi_unit_weight | QWI_FINAL_WEIGHT | 00016 | 8 | N |

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$\overline{7.2.5}$

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 |

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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.

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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 establishment-level 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 multi-unit job histories.

In order to impute establishment-level characteristics to job histories of multi-unit employers, a non-ignorable missing data model with multiple imputation was developed. The model imputes establishment-of-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 multi-unit 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 $r=1,...,\mathfrak{R}$ 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: 420 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.

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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.

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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.

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DATA SET DESCRIPTIONS

8.2.1Naming 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 |

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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 |

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2004\\ Revision: 420 \end{array}$

8.3 NOTES

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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

IRS Internal Revenue Service

LDB Longitudinal Data Base

LED Local Employment Dynamics

LEHD Longitudinal Employer-Household Dynamics

LMI Labor Market Information

MAF Master Address File

MN Minnesota

 ${f MOU}$ Memorandum of Understanding

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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

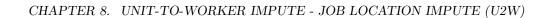
SSA Social Security Administration

SSN Social Security Number

U2W Unit-to-Worker Impute

UI unemployment insurance

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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.

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