# LEHD Origin-Destination Employment Statistics (LODES) Dataset Structure

Format Version 8.3

## Introduction

The LEHD Origin-Destination Employment Statistics (LODES) data product is released<sup>1</sup> both as part of the OnTheMap application<sup>2</sup> and in raw form as a set of comma separated value (CSV) text files. This document describes the structure of those raw files and provides basic information for users who want to perform analytical work on the data outside of the OnTheMap application.

## Data Files

The CSV data files are released at the state level and they are organized into three groups within each state. The three groups of files are named as follows, according to their contents:

**OD** – Origin-Destination data, jobs totals are associated with both a home Census Block and a work Census Block

RAC - Residence Area Characteristic data, jobs are totaled by home Census Block

WAC – Workplace Area Characteristic data, jobs are totaled by work Census Block

All CSV files are compressed using a GZip algorithm, which appends a ".gz" to the end of the filename. Most commonly used compression/extraction software packages can decompress these files (see en.wikipedia.org/wiki/Zip (file format)).

# File Organization

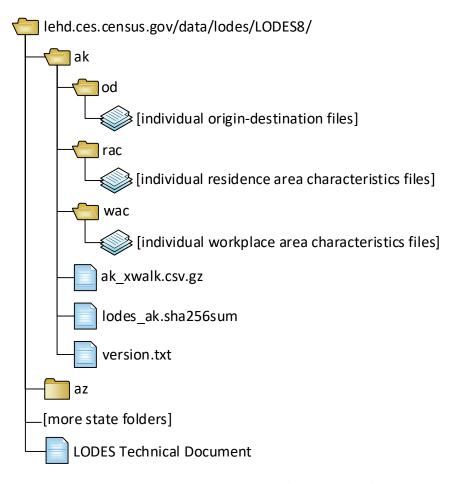
At the root distribution level, each state (or state-equivalent) has a directory named by its lowercase, 2-letter postal code. Within each state directory are directories of data as well as metadata and geography files for the state. These are described below.

<sup>&</sup>lt;sup>2</sup> The OnTheMap application can be accessed at onthemap.ces.census.gov.



<sup>&</sup>lt;sup>1</sup> Note: The U.S. Census Bureau reviewed this data product for unauthorized disclosure of confidential information and approved the disclosure avoidance practices applied to this release. CBDRB-FY21-249. Project Number: P-6000266.

The LODES8 directory tree is structured as follows:



For users who want to automate the download of LODES data files, the root location of the directory structure is <a href="lehd.ces.census.gov/data/lodes/LODES8/">lehd.ces.census.gov/data/lodes/LODES8/</a>. This location can be accessed directly via a web browser. Additionally, users can direct their browsers to <a href="lehd.ces.census.gov/data/#lodes">lehd.ces.census.gov/data/#lodes</a> for single-file downloads.

# Metadata Files and Geography Crosswalk

As shown in the diagram above, within each state directory are two text files. One is a version document, called "version.txt", and the other is a "checksum" file. Also in the state directory is a geographic relationship file (referred to here as a "geography crosswalk").

The version file contains information about the state, the data vintage, and the format version. The "data vintage" is an eight character code based on the date the data were prepared for release; it is in the form of YYYYMMDD.<sup>3</sup> New or corrected data may cause newer vintages of data to be released. Only

<sup>&</sup>lt;sup>3</sup> The data vintage is *not* the same as the createdate provided within the data files. The createdate refers to an internal processing point, while the data vintage is the code that refers to a specific release of public LODES data.



files that have new or changed data will be included in future vintages. The "format version" is a number that refers to file organization and structure of the data release and is fully defined by this document. Restructuring of the existing data into different file formats or a different organization structure would result in a change in the format version.

The checksum file in each state directory is an SHA256SUM file, called "lodes\_[ST].sha256sum" where [ST] is the respective state postal code. With the correct software tools, the SHA256SUM file can be used to check that the individual data files were downloaded without any file corruption or loss of data. Further information on SHA256SUM can be found at <a href="mailto:en.wikipedia.org/wiki/SHA-2">en.wikipedia.org/wiki/SHA-2</a>.

The geography crosswalk is a relationship file that establishes the hierarchical connection between each 2020 census tabulation block and all higher level geographic entities supported by the OnTheMap application. The geography crosswalk file is distributed as a Gzipped (see below) CSV. More detail about this file, including the layout, is available in the Geography Crosswalk section below.

## Data Coverage and Availability

LODES includes tabulations for 51 State and territorial partners.<sup>4</sup> Most states (or state equivalents) have OD, RAC, and WAC data for all 21 years (2002-2022). In some years, employment data are not available for some states. In those cases, the state will not have OD or WAC files, but will have RAC files that include residents who are employed in other states.

Datasets for 2009 and later contain demographic variables (Race, Ethnicity, Education, and Sex) in the RAC and WAC files that are not available in other years of data. 2011 and later datasets contain additional variables (Firm Age and Firm Size) in the WAC files. <sup>5</sup> The data structure for all years of data includes space for these newer variables, but in years outside the listed range these variables contain only zeroes. See the "File Naming Conventions and File Structure Details" section of this document for more information.

Datasets for 2010 and later contain additional Job Types that cover Federal employment as supplied by the Office of Personnel Management (OPM).<sup>6</sup> The data structure is outlined in the "File Naming Conventions and File Structure Details" segment of this document.

For state-years 2009 and earlier, a full complement of data includes 8 OD files, 40 RAC files, and 40 WAC files. 2010 and forward includes 12 OD files, 60 RAC files, and 60 WAC files. In some cases, individual files produced for a state-year combination may contain no data because there are no jobs in the

<sup>&</sup>lt;sup>6</sup> For more information about Federal employment data in LODES, please see <u>lehd.ces.census.gov/doc/help/onthemap/FederalEmploymentInOnTheMap.pdf</u> as well as <u>lehd.ces.census.gov/doc/help/onthemap/LODESDataNote-FedEmp2015.pdf</u>.



<sup>&</sup>lt;sup>4</sup> Specifically, the District of Columbia plus the 50 states. For more information on the LED partnership and to see a list of current partner states see lehd.ces.census.gov/state\_partners/.

<sup>&</sup>lt;sup>5</sup> Additionally, Firm Age and Firm Size are only made available for the All Private Jobs job type (JT02). For more information about Firm Age and Firm Size variables, please see lehd.ces.census.gov/research/.

specific combination of state-year-jobtype-filetype. When this occurs the individual file still exists, but only contains the file header as specified below.

The details of the data coverage and state availability are summarized in the table below:

Year(s)	Available States	States Without OD and WAC Data <sup>7</sup>	Federal Jobs	Race, Ethnicity, Education, Sex	Firm Age, Firm Size
2002	45	Arkansas, Arizona, DC, Massachusetts, Mississippi, New Hampshire	No	No	No
2003	47	Arizona, DC, Massachusetts, Mississippi	No	No	No
2004-2008	49	DC, Massachusetts	No	No	No
2009	49	DC, Massachusetts	No	Yes	No
2010	50	Massachusetts	Yes	Yes	No
2011-2016	51	(none)	Yes	Yes	Yes
2017-2018	50	Alaska	Yes	Yes	Yes
2019-2021	49	Alaska, Mississippi	Yes	Yes	Yes
2022	48	Alaska, Michigan, Mississippi	Yes	Yes	Yes

# Geography Vintage

LODES Version 8.3 is based on 2023 TIGER/Line shapefiles. The data are enumerated with 2020 census blocks. LODES Version 7 and 6 used 2010 census blocks. Basic information on 2020 census blocks can be found at <a href="https://www.census.gov/geographies/reference-files/time-series/geo/block-assignment-files.html">www.census.gov/geographies/reference-files/time-series/geo/block-assignment-files.html</a>. General information on the relationships between 2010 census blocks and 2020 census blocks can be found at <a href="https://www.census.gov/geographies/reference-files/time-series/geo/relationship-files.html">www.census.gov/geographies/reference-files/time-series/geo/relationship-files.html</a>. The methods used to translate historical data into 2020 census blocks can be found at <a href="https://www.census.gov/doc/help/onthemap/OnTheMap2020Geography.pdf">lehd.ces.census.gov/doc/help/onthemap/OnTheMap2020Geography.pdf</a>.

<sup>&</sup>lt;sup>8</sup> See <a href="www.census.gov/geo/maps-data/data/tiger-line.html">www.census.gov/geo/maps-data/data/tiger-line.html</a> for more information on the TIGER/Line data products and <a href="lehd.ces.census.gov/applications/help/onthemap.html#!geographic data">lehd.ces.census.gov/applications/help/onthemap.html#!geographic data</a> for more information on how OnTheMap sources its geography.



<sup>&</sup>lt;sup>7</sup> While Puerto Rico is a member of the LED Partnership, data infrastructure constraints prevent it from being included in LODES at this time.

## File Naming Conventions and File Structure Details

The structure of the three types of files is described on the following pages:

#### OD

Filenames of the OD datasets are described by the following templates

[ST]\_od\_[PART]\_[TYPE]\_[YEAR].csv.gz where

[ST] = lowercase, 2-letter postal code for a chosen state

[PART] = Part of the state file, can have a value of either "main" or "aux". Complimentary parts of the state file, the main part includes jobs with both workplace and residence in the state and the aux part includes jobs with the workplace in the state and the residence outside of the state.

[TYPE] = Job Type, can have a value of "JT00" for All Jobs, "JT01" for Primary Jobs, "JT02" for All Private Jobs, "JT03" for Private Primary Jobs, "JT04" for All Federal Jobs, or "JT05" for Federal Primary Jobs.

[YEAR] = Year of job data. Can have the value of 2002-2022 for most states.

As an example, the main OD file of Primary Jobs in 2007 for California would be the file: ca\_od\_main\_JT01\_2007.csv.gz

The structure of the OD files is as follows:

	Origin-Destination (OD) File Structure				
Pos	Variable	Type	Explanation		
1	w_geocode	Char15	Workplace Census Block Code		
2	h_geocode	Char15	Residence Census Block Code		
3	S000	Num	Total number of jobs		
4	SA01	Num	Number of jobs of workers age 29 or younger <sup>9</sup>		
5	SA02	Num	Number of jobs for workers age 30 to 54 <sup>9</sup>		
6	SA03	Num	Number of jobs for workers age 55 or older <sup>9</sup>		
7	SE01	Num	Number of jobs with earnings \$1250/month or less		
8	SE02	Num	Number of jobs with earnings \$1251/month to \$3333/month		
9	SE03	Num	Number of jobs with earnings greater than \$3333/month		
10	SI01	Num	Number of jobs in Goods Producing industry sectors <sup>10</sup>		
11	SI02	Num	Number of jobs in Trade, Transportation, and Utilities industry sectors <sup>10</sup>		
12	SI03	Num	Number of jobs in All Other Services industry sectors <sup>10</sup>		
13	createdate	Char	Date on which data was created, formatted as YYYYMMDD		

<sup>&</sup>lt;sup>9</sup> For the 2012 data year and later, the job frame has been constrained to include only workers age 14 to 99, so that the youngest age group becomes 14 to 29 and the oldest age group becomes 55 to 99.

<sup>&</sup>lt;sup>10</sup> The 2-digit NAICS codes associated with the industry Labor Market Segments are as follows: *Goods Producing* (SI01) includes NAICS 11, 21, 23, and 31-33, *Trade Transportation and Utilities* (SI02) includes NAICS 42, 44-45, 48-49, and 22, and *All Other Services* (SI03) includes the remaining twelve 2-digit NAICS industry sectors.



## **RAC**

Filenames of the RAC datasets are described by the following template:

[ST]\_rac\_[SEG]\_[TYPE]\_[YEAR]\_1.csv.gz where

[ST] = lowercase, 2-letter postal code for a chosen state

[SEG] = Segment of the workforce, can have the values of "S000", "SA01", "SA02", "SA03", "SE01", "SE02", "SE03", "SI01", "SI02", or "SI03". These correspond to the same segments of the workforce as are listed in the OD file structure above.

[TYPE] = Job Type, can have a value of "JT00" for All Jobs, "JT01" for Primary Jobs, "JT02" for All Private Jobs, "JT03" for Private Primary Jobs, "JT04" for All Federal Jobs, or "JT05" for Federal Primary Jobs.

[YEAR] = Year of job data. Can have the value of 2002-2022 for most states.

As an example, the RAC file of All Jobs for workers age 29 or younger in 2004 for New Jersey would be the file: nj\_rac\_SA01\_JT00\_2004.csv.gz

	Residence Area Characteristics (RAC) File Structure			
Pos	Variable	Type	Explanation	
1	h_geocode	Char15	Residence Census Block Code	
2	C000	Num	Total number of jobs	
3	CA01	Num	Number of jobs for workers age 29 or younger <sup>9</sup>	
4	CA02	Num	Number of jobs for workers age 30 to 54 <sup>9</sup>	
5	CA03	Num	Number of jobs for workers age 55 or older <sup>9</sup>	
6	CE01	Num	Number of jobs with earnings \$1250/month or less	
7	CE02	Num	Number of jobs with earnings \$1251/month to \$3333/month	
8	CE03	Num	Number of jobs with earnings greater than \$3333/month	
9	CNS01	Num	Number of jobs in NAICS sector 11 (Agriculture, Forestry, Fishing and Hunting)	
10	CNS02	Num	Number of jobs in NAICS sector 21 (Mining, Quarrying, and Oil and Gas Extraction)	
11	CNS03	Num	Number of jobs in NAICS sector 22 (Utilities)	
12	CNS04	Num	Number of jobs in NAICS sector 23 (Construction)	
13	CNS05	Num	Number of jobs in NAICS sector 31-33 (Manufacturing)	
14	CNS06	Num	Number of jobs in NAICS sector 42 (Wholesale Trade)	
15	CNS07	Num	Number of jobs in NAICS sector 44-45 (Retail Trade)	
16	CNS08	Num	Number of jobs in NAICS sector 48-49 (Transportation and Warehousing)	
17	CNS09	Num	Number of jobs in NAICS sector 51 (Information)	
18	CNS10	Num	Number of jobs in NAICS sector 52 (Finance and Insurance)	
19	CNS11	Num	Number of jobs in NAICS sector 53 (Real Estate and Rental and Leasing)	
20	CNS12	Num	Number of jobs in NAICS sector 54 (Professional, Scientific, and Technical Services)	
21	CNS13	Num	Number of jobs in NAICS sector 55 (Management of Companies and Enterprises)	
22	CNS14	Num	Number of jobs in NAICS sector 56 (Administrative and Support and Waste	
			Management and Remediation Services)	
23	CNS15	Num	Number of jobs in NAICS sector 61 (Educational Services)	
24	CNS16	Num	Number of jobs in NAICS sector 62 (Health Care and Social Assistance)	
25	CNS17	Num	Number of jobs in NAICS sector 71 (Arts, Entertainment, and Recreation)	
26	CNS18	Num	Number of jobs in NAICS sector 72 (Accommodation and Food Services)	



28 (	CNS19 CNS20	Num	Number of jobs in NAICS sector 81 (Other Services [except Public Administration])
	CNS20		
20 0		Num	Number of jobs in NAICS sector 92 (Public Administration)
29 (	CR01	Num	Number of jobs for workers with Race: White, Alone <sup>11</sup>
30 (	CR02	Num	Number of jobs for workers with Race: Black or African American Alone <sup>11</sup>
31 (	CR03	Num	Number of jobs for workers with Race: American Indian or Alaska Native Alone <sup>11</sup>
32 (	CR04	Num	Number of jobs for workers with Race: Asian Alone <sup>11</sup>
33 (	CR05	Num	Number of jobs for workers with Race: Native Hawaiian or Other Pacific Islander
			Alone <sup>111</sup>
34 (	CR07	Num	Number of jobs for workers with Race: Two or More Race Groups <sup>11</sup>
35 C	CT01	Num	Number of jobs for workers with Ethnicity: Not Hispanic or Latino <sup>11</sup>
36 (	CT02	Num	Number of jobs for workers with Ethnicity: Hispanic or Latino <sup>11</sup>
37 (	CD01	Num	Number of jobs for workers with Educational Attainment: Less than high school <sup>11,12</sup>
38 (	CD02	Num	Number of jobs for workers with Educational Attainment: High school or equivalent,
			no college <sup>111,122</sup>
39 (	CD03	Num	Number of jobs for workers with Educational Attainment: Some college or Associate
			degree <sup>111,12</sup>
40 0	CD04	Num	Number of jobs for workers with Educational Attainment: Bachelor's degree or
			advanced degree <sup>11,12</sup>
41 (	CS01	Num	Number of jobs for workers with Sex: Male <sup>11</sup>
42 (	CS02	Num	Number of jobs for workers with Sex: Female <sup>11</sup>
43 c	createdate	Char8	Date on which data was created, formatted as YYYYMMDD

<sup>&</sup>lt;sup>12</sup> Educational Attainment is only available for workers age 30 and older.



<sup>&</sup>lt;sup>11</sup> Race, Ethnicity, Educational Attainment, and Sex variables are only available for data years 2009 and later.

## WAC

Filenames of the WAC datasets are described by the following template:

[ST]\_wac\_[SEG]\_[TYPE]\_[YEAR].csv.gz where

[ST] = lowercase, 2-letter postal code for a chosen state

[SEG] = Segment of the workforce, can have the values of "S000", "SA01", "SA02", "SA03", "SE01", "SE02", "SE03", "SI01", "SI02", or "SI03". These correspond to the same segments of the workforce as are listed in the OD file structure above.

[TYPE] = Job Type, can have a value of "JT00" for All Jobs, "JT01" for Primary Jobs, "JT02" for All Private Jobs, "JT03" for Private Primary Jobs, "JT04" for All Federal Jobs, or "JT05" for Federal Primary Jobs.

[YEAR] = Year of job data. Can have the value of 2002-2022 for most states.

As an example, the WAC file of Private Primary Jobs for workers earning more than \$3333/mo in 2008 for Iowa would be the file: ia\_wac\_SE03\_JT03\_2008.csv.gz

	Workplace Area Characteristics (WAC) File Structure			
Pos	Variable	Type	Explanation	
1	w_geocode	Char15	Workplace Census Block Code	
2	C000	Num	Total number of jobs	
3	CA01	Num	Number of jobs for workers age 29 or younger <sup>9</sup>	
4	CA02	Num	Number of jobs for workers age 30 to 54 <sup>9</sup>	
5	CA03	Num	Number of jobs for workers age 55 or older <sup>9</sup>	
6	CE01	Num	Number of jobs with earnings \$1250/month or less	
7	CE02	Num	Number of jobs with earnings \$1251/month to \$3333/month	
8	CE03	Num	Number of jobs with earnings greater than \$3333/month	
9	CNS01	Num	Number of jobs in NAICS sector 11 (Agriculture, Forestry, Fishing and Hunting)	
10	CNS02	Num	Number of jobs in NAICS sector 21 (Mining, Quarrying, and Oil and Gas Extraction)	
11	CNS03	Num	Number of jobs in NAICS sector 22 (Utilities)	
12	CNS04	Num	Number of jobs in NAICS sector 23 (Construction)	
13	CNS05	Num	Number of jobs in NAICS sector 31-33 (Manufacturing)	
14	CNS06	Num	Number of jobs in NAICS sector 42 (Wholesale Trade)	
15	CNS07	Num	Number of jobs in NAICS sector 44-45 (Retail Trade)	
16	CNS08	Num	Number of jobs in NAICS sector 48-49 (Transportation and Warehousing)	
17	CNS09	Num	Number of jobs in NAICS sector 51 (Information)	
18	CNS10	Num	Number of jobs in NAICS sector 52 (Finance and Insurance)	
19	CNS11	Num	Number of jobs in NAICS sector 53 (Real Estate and Rental and Leasing)	
20	CNS12	Num	Number of jobs in NAICS sector 54 (Professional, Scientific, and Technical Services)	
21	CNS13	Num	Number of jobs in NAICS sector 55 (Management of Companies and Enterprises)	
22	CNS14	Num	Number of jobs in NAICS sector 56 (Administrative and Support and Waste	
			Management and Remediation Services)	
23	CNS15	Num	Number of jobs in NAICS sector 61 (Educational Services)	
24	CNS16	Num	Number of jobs in NAICS sector 62 (Health Care and Social Assistance)	
25	CNS17	Num	Number of jobs in NAICS sector 71 (Arts, Entertainment, and Recreation)	
26	CNS18	Num	Number of jobs in NAICS sector 72 (Accommodation and Food Services)	



27	CNS19	Num	Number of jobs in NAICS sector 81 (Other Services [except Public Administration])
28	CNS20	Num	Number of jobs in NAICS sector 92 (Public Administration)
29	CR01	Num	Number of jobs for workers with Race: White, Alone <sup>11</sup>
30	CR02	Num	Number of jobs for workers with Race: Black or African American Alone <sup>11</sup>
31	CR03	Num	Number of jobs for workers with Race: American Indian or Alaska Native Alone <sup>11</sup>
32	CR04	Num	Number of jobs for workers with Race: Asian Alone <sup>11</sup>
33	CR05	Num	Number of jobs for workers with Race: Native Hawaiian or Other Pacific Islander Alone <sup>11</sup>
34	CR07	Num	Number of jobs for workers with Race: Two or More Race Groups <sup>11</sup>
35	CT01	Num	Number of jobs for workers with Ethnicity: Not Hispanic or Latino <sup>11</sup>
36	CT02	Num	Number of jobs for workers with Ethnicity: Hispanic or Latino <sup>11</sup>
37	CD01	Num	Number of jobs for workers with Educational Attainment: Less than high school <sup>11,12</sup>
38	CD02	Num	Number of jobs for workers with Educational Attainment: High school or equivalent, no college <sup>11,12</sup>
39	CD03	Num	Number of jobs for workers with Educational Attainment: Some college or Associate degree <sup>11,12</sup>
40	CD04	Num	Number of jobs for workers with Educational Attainment: Bachelor's degree or advanced degree <sup>11,12</sup>
41	CS01	Num	Number of jobs for workers with Sex: Male <sup>11</sup>
42	CS02	Num	Number of jobs for workers with Sex: Female <sup>11</sup>
43	CFA01	Num	Number of jobs for workers at firms with Firm Age: 0-1 Years <sup>13</sup>
44	CFA02	Num	Number of jobs for workers at firms with Firm Age: 2-3 Years <sup>13</sup>
45	CFA03	Num	Number of jobs for workers at firms with Firm Age: 4-5 Years <sup>13</sup>
46	CFA04	Num	Number of jobs for workers at firms with Firm Age: 6-10 Years <sup>13</sup>
47	CFA05	Num	Number of jobs for workers at firms with Firm Age: 11+ Years <sup>13</sup>
48	CFS01	Num	Number of jobs for workers at firms with Firm Size: 0-19 Employees <sup>13,14</sup>
49	CFS02	Num	Number of jobs for workers at firms with Firm Size: 20-49 Employees <sup>13,14</sup>
50	CFS03	Num	Number of jobs for workers at firms with Firm Size: 50-249 Employees <sup>13,14</sup>
51	CFS04	Num	Number of jobs for workers at firms with Firm Size: 250-499 Employees <sup>13,14</sup>
52	CFS05	Num	Number of jobs for workers at firms with Firm Size: 500+ Employees <sup>13,14</sup>
53	createdate	Char8	Date on which data was created, formatted as YYYYMMDD

<sup>&</sup>lt;sup>14</sup> For firms 1 year and older, firm size is the national size of the firm in March of the *previous* year.



 $<sup>^{13}</sup>$  Firm Age and Firm Size variables are only available for data years 2011-2022, for All Private Jobs (JT02).

## Geography Crosswalk

Filenames of the geography crosswalk datasets are described by the following template:

[ST]\_xwalk.csv.gz where

[ST] = lowercase, 2-letter postal code for a chosen state

As an example, the geography crosswalk file for Michigan would be the file: mi xwalk.csv.gz

#### **Code Vintages**

The primary key/identifier in the Geography Crosswalk is the 2020 Census Tabulation Block Code (tabblk2020). This code does not change between Decennial Censuses and can be used to link to the geocodes in the OD/RAC/WAC files. All other geographic codes in the crosswalk are "current" and represent more recent definitions of the legal, statistical, or administrative areas as integrated into LODES and OnTheMap.

	Geography Crosswalk File Structure			
Pos	Variable	Type	Explanation <sup>15</sup>	
1	tabblk2020	Char15	2020 Census Tabulation Block Code	
2	st	Char2	FIPS State Code	
3	stusps	Char2	USPS State Code	
4	stname	Char100	State Name	
5	cty	Char5	FIPS County Code	
6	ctyname	Char100	County or County Equivalent Name	
7	trct	Char11	Census Tract Code	
8	trctname	Char100	Tract Name, formatted with County and State	
9	bgrp	Char12	Census Blockgroup Code	
10	bgrpname	Char100	Census Blockgroup Name, formatted with Tract, County, and State	
11	cbsa	Char5	CBSA (Metropolitan/Micropolitan Area) Code	
12	cbsaname	Char100	CBSA (Metropolitan/Micropolitan Area) Name	
13	zcta	Char5	ZIP Code Tabulation Area (ZCTA) Code	
14	zctaname	Char100	ZCTA Name	
15	stplc	Char7	Nationally Unique Place Code, (FIPS State + FIPS Place)	
16	stplcname	Char100	Place Name	
17	ctycsub	Char10	Nationally Unique County Subdivision Code, (FIPS State + FIPS County + FIPS	
			County Subdivision)	
18	ctycsubname	Char100	County Subdivision Name	
19	stcd118	Char4	Nationally Unique 118 <sup>th</sup> Congressional District Code, (FIPS State + 2-digit District Number) <sup>16</sup>	
20	stcd118name	Char100	118 <sup>th</sup> Congressional District Name	

<sup>&</sup>lt;sup>15</sup> All codes are constructed to be nationally unique. For areas that do not have a FIPS or other identifier that is nationally unique, the State FIPS or both State and County FIPS codes are prepended to create uniqueness. Source information for each geography can be found at

<sup>&</sup>lt;sup>16</sup> States with At Large districts have a district code of "00". State equivalents with Resident Commissioners or Delegates have a district code of "98".



lehd.ces.census.gov/applications/help/onthemap.html#!geographic data.

24		Cl F	No. 11 Alice Control of the Control
21	stsldl	Char5	Nationally Unique State Legislative District, Lower Chamber, (FIPS State + 3-digit
			District Number)
22	stsldlname	Char100	State Legislative District Chamber, Lower Chamber
23	stsldu	Char5	Nationally Unique State Legislative District, Upper Chamber, (FIPS State + 3-digit
			District Number)
24	stslduname	Char100	State Legislative District Chamber, Upper Chamber Chamber
25	stschool	Char7	Nationally Unique Unified/Elementary School District Code, (FIPS State + 5-digit
			Local Education Agency Code)
26	stschoolname	Char100	Unified/Elementary School District Name
27	stsecon	Char7	Nationally Unique Secondary School District Code, (FIPS State + 5-digit Local
			Education Agency Code)
28	stseconname	Char100	Secondary School District Name
29	trib	Char5	American Indian /Alaska Native/Native Hawaiian Area Census Code
30	tribname	Char100	American Indian /Alaska Native/Native Hawaiian Area Name
31	tsub	Char7	American Indian Tribal Subdivision Code
32	tsubname	Char100	American Indian Tribal Subdivision Name
33	stanrc	Char7	Nationally Unique Alaska Native Regional Corporation (ANRC) Code (FIPS State +
			FIPS ANRC)
34	stanrcname	Char100	Alaska Native Regional Corporation Name
35	mil	Char22	Military Installation Landmark Code
36	milname	Char100	Military Installation Name
37	stwib	Char8	Nationally Unique Workforce Innovation Board (WIB) Area Code (FIPS State +
			state-provided 6-digit WIB Area Code)
38	stwibname	Char100	Workforce Innovation Board Area Name
39	blklatdd	Num	Latitude (in decimal degrees) of block internal point. <sup>17</sup>
40	blklondd	Num	Longitude (in decimal degrees) of block internal point. 17
41	createdate	Char8	Date on which data was created, formatted as YYYYMMDD

<sup>&</sup>lt;sup>17</sup>The internal point for each block is a point used by the OnTheMap application to assist in selecting blocks and allocating data from blocks to larger geographical aggregations. The internal point is not a centroid and the only guarantee is that it is *inside* the block.



## Format Version

This document – LODES Format Version 8.3 – describes the structure for the data released along with the following OnTheMap Application versions:

OnTheMap Version 6.24.2 – Released November 19, 2024

LODES Format Version 8.1 describes the structure for the data released with the earlier OnTheMap Application versions. 18

OnTheMap Version 6.23.4 – Released November 15, 2023

LODES Format Version 8.0 describes the structure for the data released with the earlier OnTheMap Application versions. 19

OnTheMap Version 6.23.1 - Released March 4, 2023

LODES Format Version 7.5 describes the structure for the data released with the earlier OnTheMap Application versions.<sup>20</sup>

OnTheMap Version 6.8 - Released December 8, 2020

LODES Format Version 7.4 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>21</sup>

OnTheMap Version 6.7 – Released August 29, 2019

LODES Format Version 7.3 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>22</sup>

OnTheMap Version 6.6 - Released September 20, 2017

LODES Format Version 7.2 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>23</sup>

OnTheMap Version 6.5.1 – Released April 11, 2017 OnTheMap Version 6.5 – Released March 3, 2016

LODES Format Version 7.1 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>24</sup>

OnTheMap Version 6.4.1 – Released August 12, 2015 OnTheMap Version 6.4 – Released July 7, 2015

<sup>&</sup>lt;sup>24</sup> See lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.1.pdf for more information.



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<sup>&</sup>lt;sup>18</sup> See lehd.ces.census.gov/data/lo<u>des/LODES8/LODESTechDoc8.1.pdf</u> for more information.

<sup>&</sup>lt;sup>19</sup> See <u>lehd.ces.census.gov/data/lodes/LODES8/LODESTechDoc8.0.pdf</u> for more information.

<sup>&</sup>lt;sup>20</sup> See <u>lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.5.pdf</u> for more information.

<sup>&</sup>lt;sup>21</sup> See lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.4.pdf for more information.

<sup>&</sup>lt;sup>22</sup> See lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.3.pdf for more information.

<sup>&</sup>lt;sup>23</sup> See lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.2.pdf for more information.

LODES Format Version 7.0 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>25</sup>

```
OnTheMap Version 6.3 – Released December 3, 2014
OnTheMap Version 6.2 – Released December 3, 2013
OnTheMap Version 6.1.2 – Released May 15, 2013
```

LODES Format Version 6.1 describes the structure of the data released with the earlier OnTheMap Application versions.<sup>26</sup>

```
OnTheMap Version 6.1.1 – Released August 6, 2012
OnTheMap Version 6.1 – Released May 31, 2012
```

LODES Format Version 6.0 describes the structure of data released with the earlier OnTheMap Application versions. <sup>27,28</sup>

```
Application Version 6.0 – Released January 26, 2012
```

Format version 5.0<sup>29</sup> describes the structure of data released along with the earlier OnTheMap Application versions:

```
Application Version 5.0 – Released December 13, 2010
Application Version 5.1 – Released February 15, 2011
```

Format version 4.1<sup>30</sup> describes the structure of data released along with the earlier OnTheMap Application versions:

```
Application Version 3.0 – Released September 4, 2008
Application Version 3.1 – Released September 11, 2008
Application Version 3.2 – Released December 15, 2008
Application Version 4.0 – Released December 14, 2009
Application Version 4.1 – Released May 27, 2010
```

For further information on the background and release history of the OnTheMap application, please visit lehd.ces.census.gov/applications/help/onthemap.html#!what is onthemap.

<sup>&</sup>lt;sup>30</sup> See lehd.ces.census.gov/data/lodes/LODES5/OnTheMapDataTechDoc4.1.pdf for more information.



<sup>&</sup>lt;sup>25</sup> See lehd.ces.census.gov/data/lodes/LODES7/LODESTechDoc7.0.pdf for more information.

<sup>&</sup>lt;sup>26</sup> See <u>lehd.ces.census.gov/data/lodes/LODES6/LODESTechDoc6.1.pdf</u> for more information.

<sup>&</sup>lt;sup>27</sup> See <u>lehd.ces.census.gov/data/lodes/LODES6/LODESTechDoc6.0.pdf</u> for more information.

<sup>&</sup>lt;sup>28</sup> The only difference in structure between Version 6.0 and Version 6.1 is the addition of two new job types to cover Federal employment.

<sup>&</sup>lt;sup>29</sup> See <u>lehd.ces.census.gov/data/lodes/LODES5/OnTheMapDataTechDoc5.0.pdf</u> for more information.