Labor, Logistics, and Readiness with LEHD Data Tools

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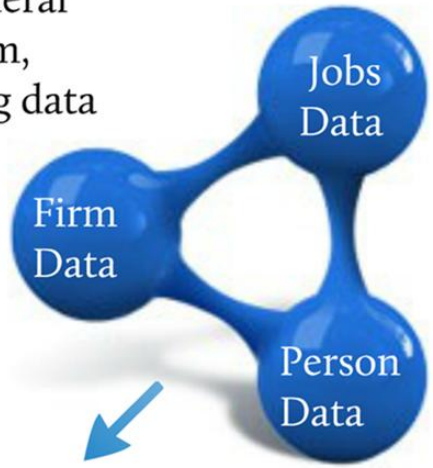
US Census Bureau

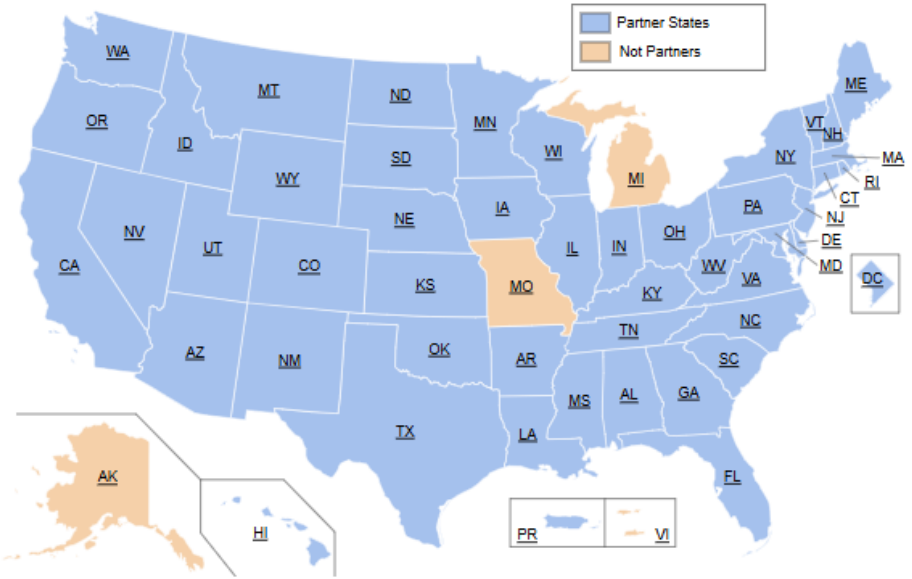
Program and Partnership

An innovative federal statistical program, collecting existing data and ...



..linking it together to provide new information sources at low cost

New linked national jobs data for the U.S.



Alabama	Illinois	Montana	Rhode Island
Alaska	Indiana	Nebraska	South Carolina
Arizona	Iowa	Nevada	South Dakota
Arkansas	Kansas	New Hampshire	Tennessee
California	Kentucky	New Jersey	Texas
Colorado	Louisiana	New Mexico	Utah
Connecticut	Maine	New York	Vermont
District of Columbia	Maryland	North Carolina	Virginia
Delaware	Massachusetts	North Dakota	Washington
Florida	Michigan	Ohio	West Virginia
Georgia	Minnesota	Oklahoma	Wisconsin
Hawaii	Mississippi	Oregon	Wyoming
Idaho	Missouri	Pennsylvania	Puerto Rico
			Virgin Islands

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Longitudinal Employer-Household Dynamics (LEHD)

Online Tool	Data/Availability	Description
J2J Explorer	J2J: Quarterly, 2000-Latest	A web-based tool for analyzing new statistics on job flows. Multiple interactive visualizations trace worker movements through industries, geographic labor markets, and to/from employment.
QWI Explorer	QWI: Quarterly, 1990-Latest	Provides charts, maps, and interactive tables for users to compare, rank, and aggregate QWIs across firm and worker characteristics.
OnTheMap	LODES: Annual, 2002-Latest	Maps, charts, and reports on demographic characteristics and commute patterns of workers/jobs covering 50 states plus D.C.
OnTheMap for Emergency management	LODES: Annual, Latest	Shows potential impact on jobs/workers and population for hurricanes, fires, floods, winter storms, and disaster declaration areas. Real-time disaster events are automatically updated. Selected variables from ACS and Decennial data are also available.
PSEO Explorer	PSEO: Annual, 2001-Latest	Interactive tool allows for comparisons of earnings and employment outcomes for recent graduates.
VEO Explorer	VEO: Annual, 2001-Latest	Interactive tool allows for comparisons of earnings and employment outcomes for military veterans.
LED Extraction Tool	QWI: 1990-Latest J2J: 2000-Latest LODES: 2002-Latest	Easy access to raw data extracts from the QWI, J2J, and LODES datasets through a simple query-building interface.

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2026 FIFA World Cup

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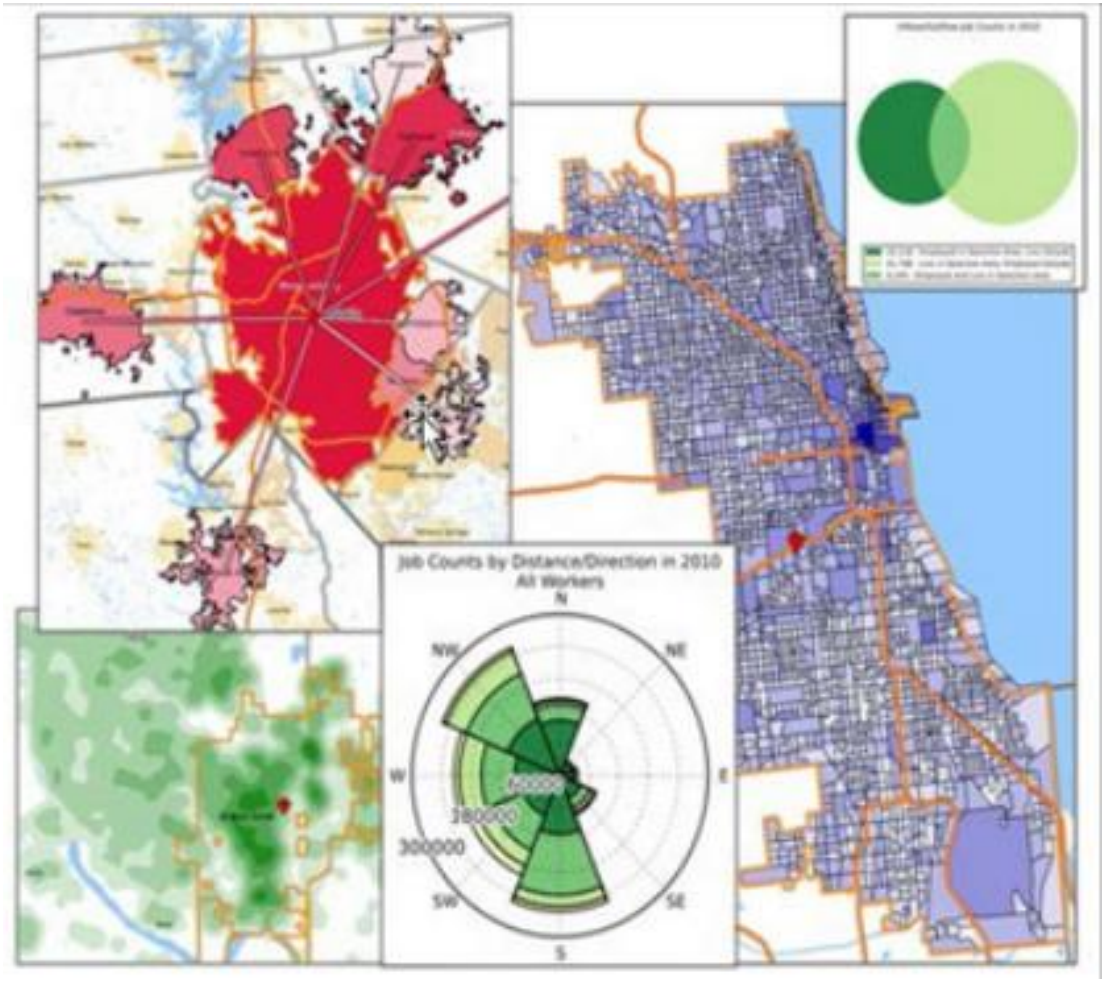
OnTheMap

OnTheMap Highlights

- **Comprehensive Coverage** – Census block-level coverage for home and work areas in 50 partner states/territories with consecutive years of data starting in 2002. Available characteristics include worker age, earnings, industry sector, worker race, worker ethnicity, worker educational attainment, worker sex, firm age, and firm size.
- **Powerful Analysis Tools** – Six different analysis types are available for users to analyze, compare, and summarize a vast amount of labor force data for user-defined or census-standard areas. Each set of results are presented through interactive maps, charts, and reports.
- **Versatile Outputs** – Results can be exported to a report (PDF, HTML, XLS), to a map (KML or Shapefile), or to other forms (PNG images or composite PDF). Users can also save their analysis settings for future use in OnTheMap.
- **Easy-To-Use Documentation** – Online documentation, including tutorials and walkthroughs, is available at <lehd.ces.census.gov/applications/help/onthemap.html>.

Contact: <CES.OnTheMap.Feedback@census.gov>



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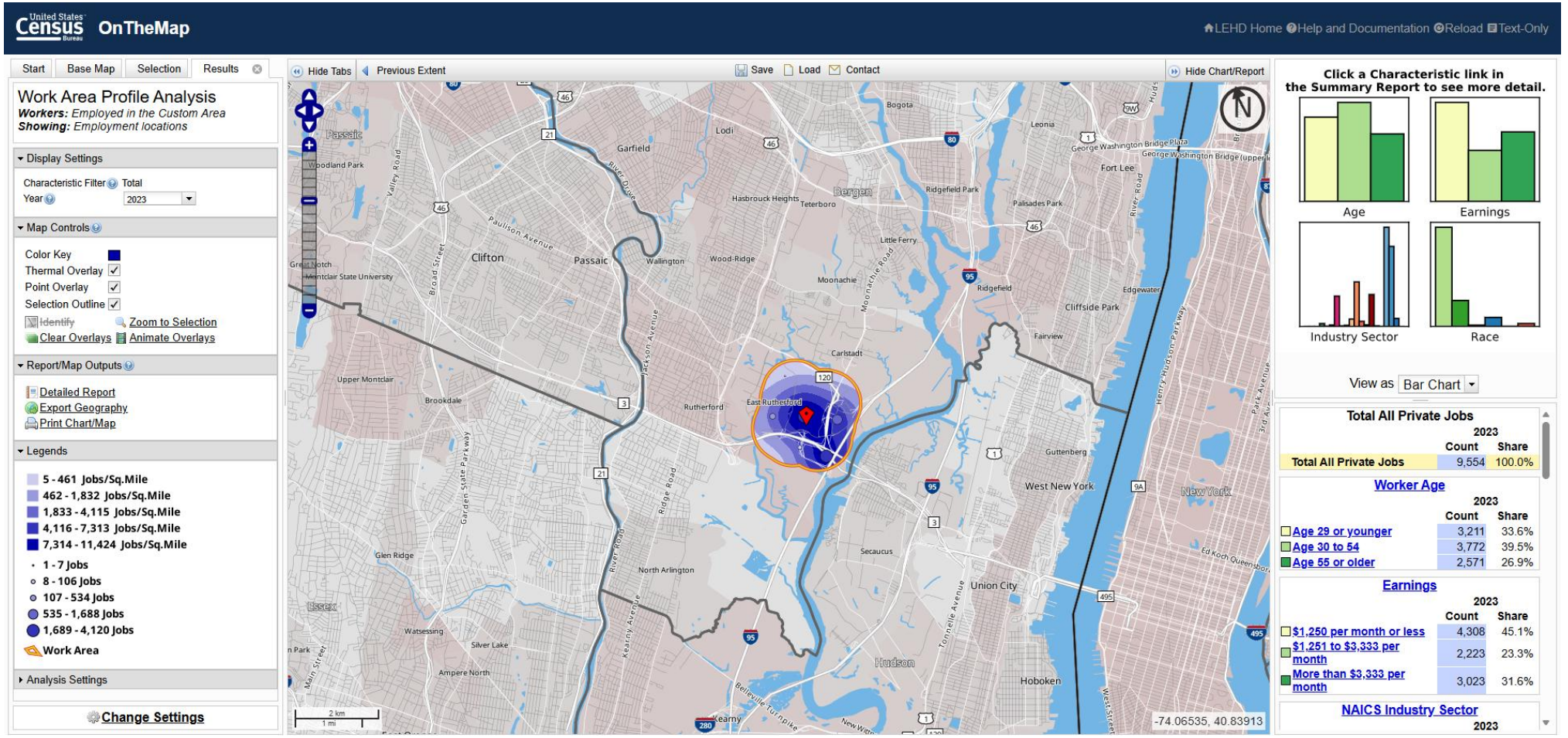
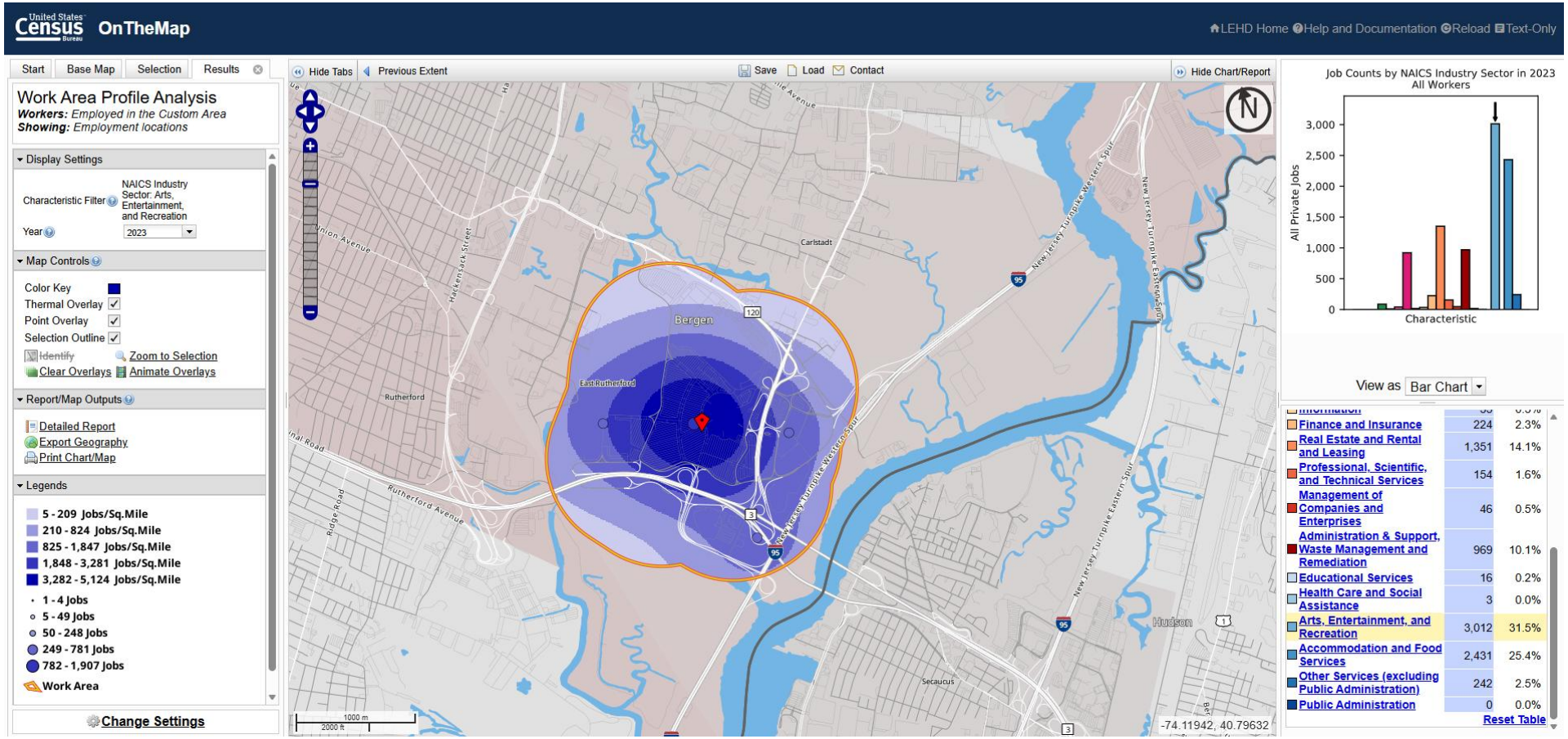
Workforce Area Impact



Top NAICS Industry: Arts, Entertainment, and Recreation = 31.5%



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LEHD Program

Donut Buffer

United States Census Bureau OnTheMap

LEHD Home | Help and Documentation | Reload | Text-Only

Start | Base Map | Selection | Results

Work Area Profile Analysis
Workers: *Employed in the Custom Area*
Showing: *Employment locations*

Display Settings
Characteristic Filter: Total
Year: 2023

Map Controls
Color Key
Thermal Overlay
Point Overlay
Selection Outline
Identify | Zoom to Selection
Clear Overlays | Animate Overlays

Report/Map Outputs
Detailed Report
Export Geography
Print Chart/Map

Legends
5 - 525 Jobs/Sq.Mile
526 - 2,086 Jobs/Sq.Mile
2,087 - 4,688 Jobs/Sq.Mile
4,689 - 8,332 Jobs/Sq.Mile
8,333 - 13,016 Jobs/Sq.Mile
1 - 7 Jobs
8 - 109 Jobs
110 - 551 Jobs
552 - 1,740 Jobs
1,741 - 4,248 Jobs
Work Area

Analysis Settings

Change Settings

Hide Tabs | Previous Extent | Save | Load | Contact | Hide Chart/Report

Click a Characteristic link in the Summary Report to see more detail.

Age | Earnings | Industry Sector | Race

View as Bar Chart

Total All Private Jobs

	2023 Count	2023 Share
Total All Private Jobs	60,813	100.0%

Worker Age

	2023 Count	2023 Share
Age 29 or younger	12,015	19.8%
Age 30 to 54	31,875	52.4%
Age 55 or older	16,923	27.8%

Earnings

	2023 Count	2023 Share
$1,250 per month or less	6,750	11.1%
$1,251 to $3,333 per month	16,226	26.7%
More than $3,333 per month	37,837	62.2%

NAICS Industry Sector 2023

-74.05988, 40.78139

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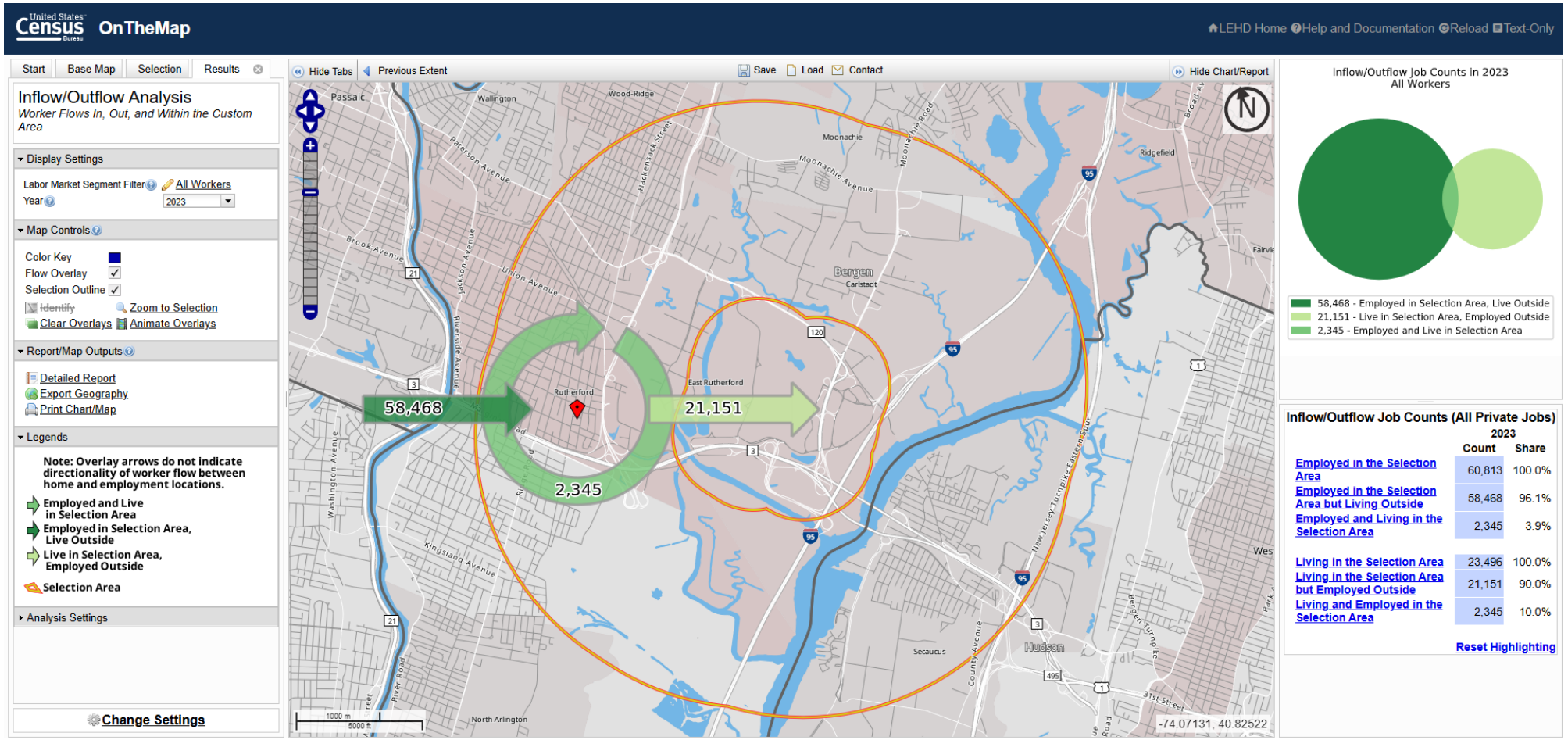
Inflow/Outflow



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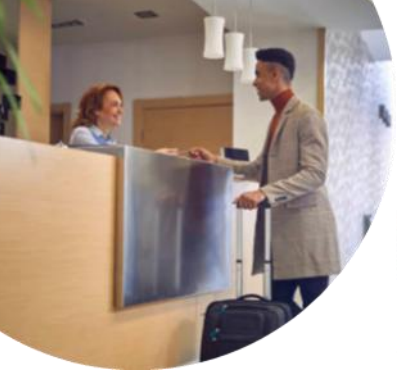
OnTheMap for Emergency Management



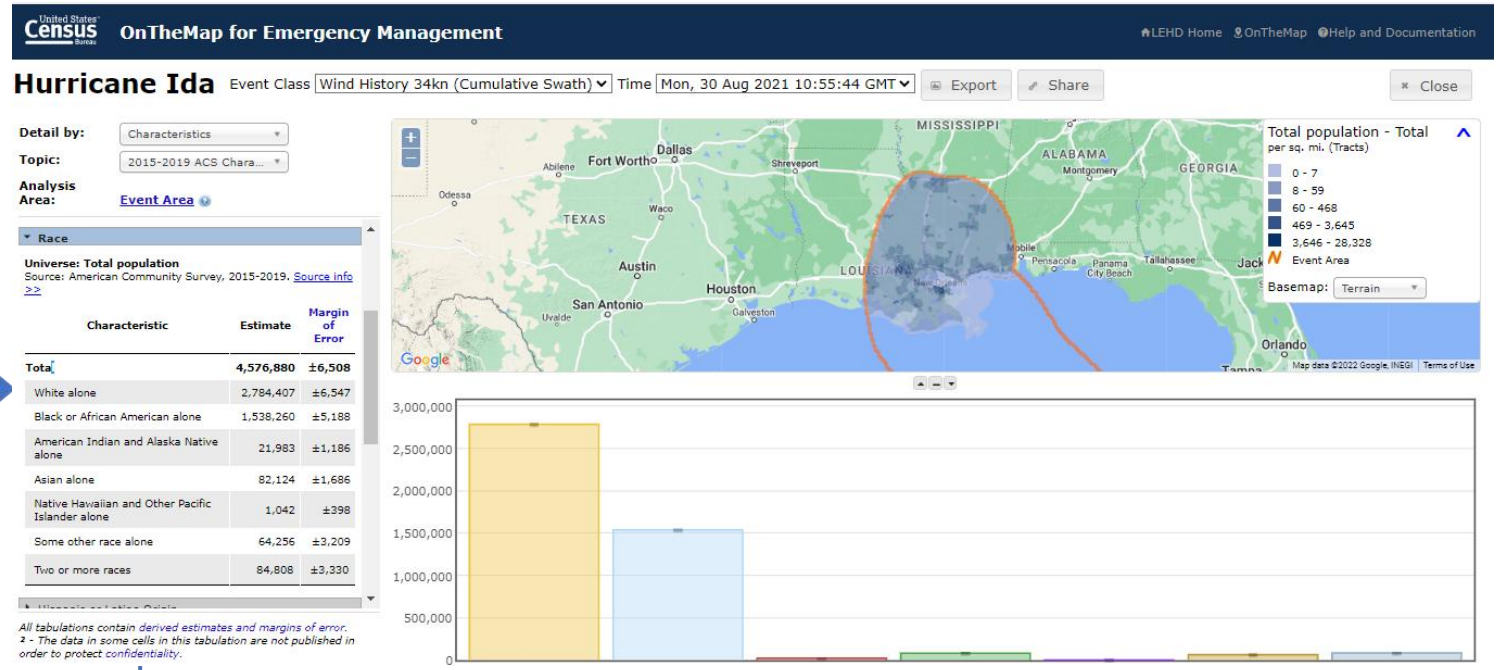
LEHD Program

Hurricanes, Floods, Winter Storms

Disaster Areas

Wildfires

Demographic & Economic Data



New Public Data Service for Emergency Preparedness & Response

- Comprehensive Reports
- Real-time Data Updates
- Easy-to-use & Interoperable
- Historical Event Archive
- Flexible Analyses & Visualizations

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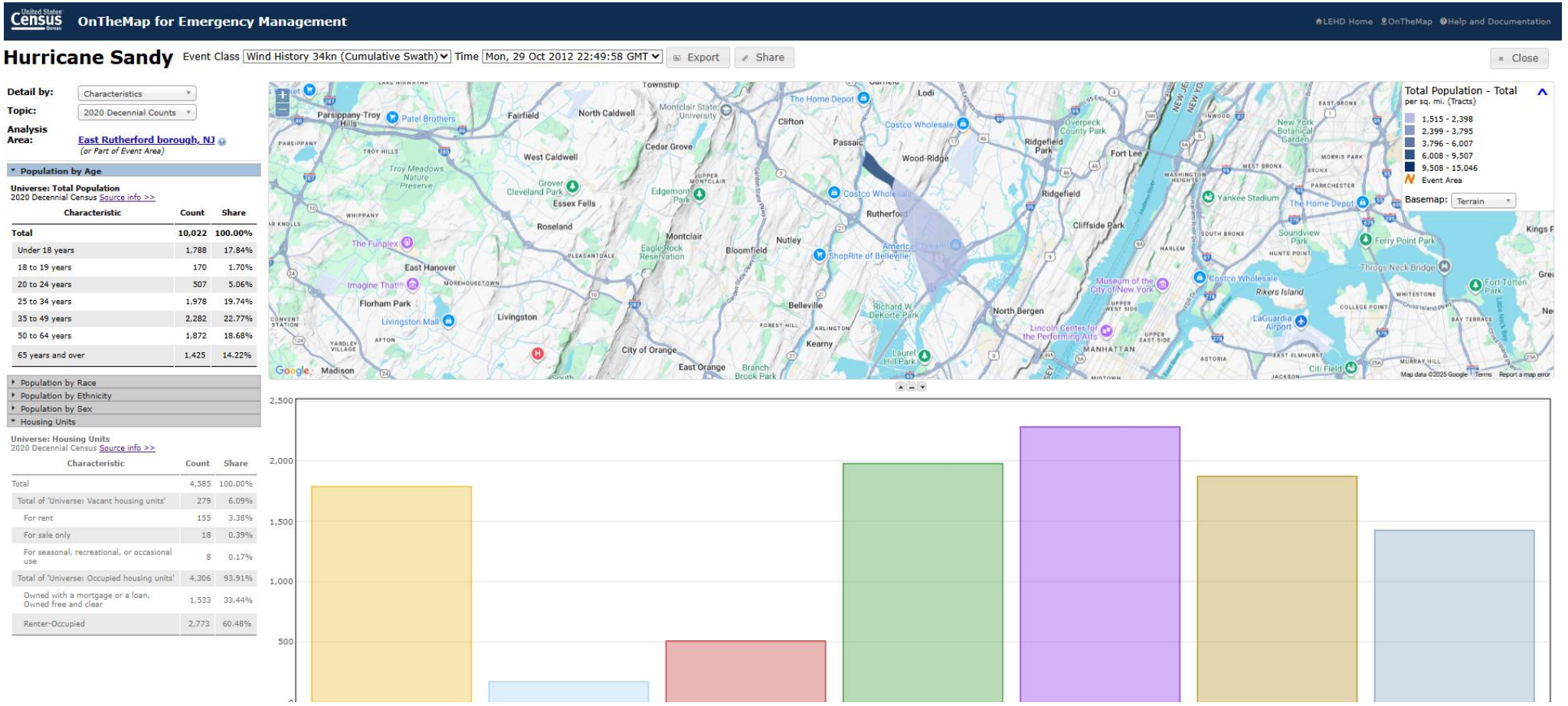
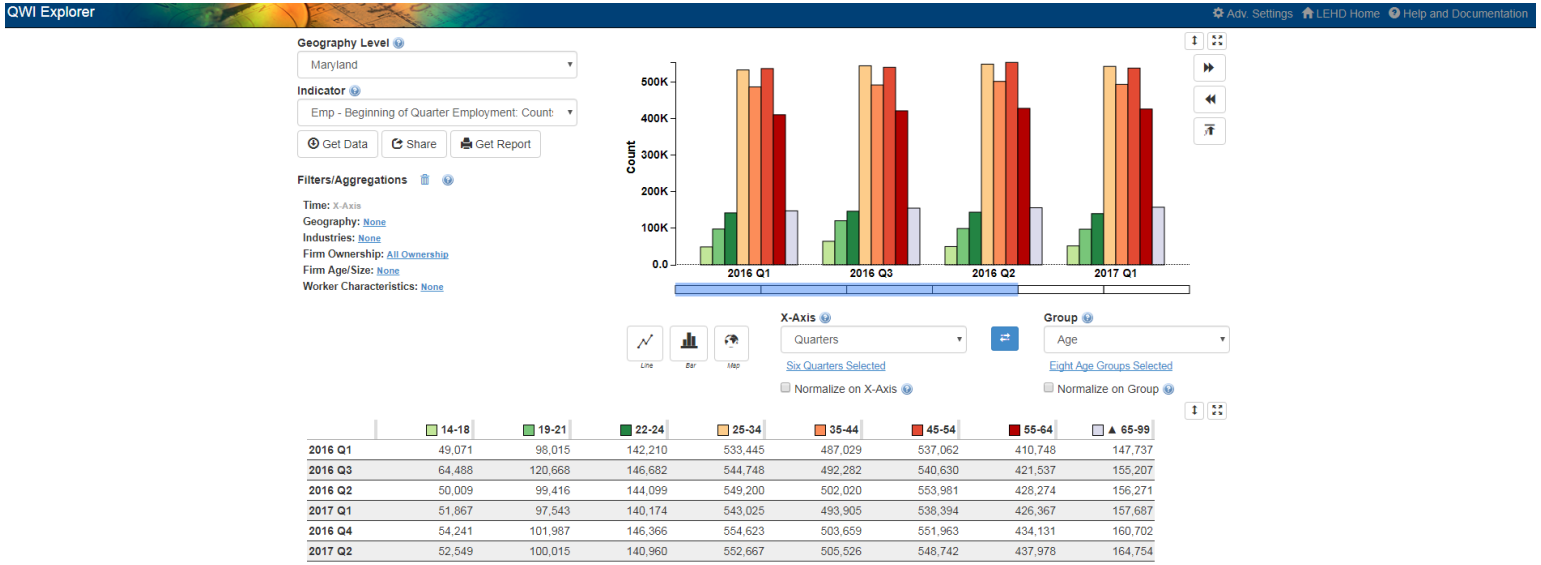
Universe: Population and Housing Units



QWI Explorer

- ✓ 32 Quarterly Workforce Indicators
- ✓ Flexible Pivot Table and Map/Chart interface
- ✓ Data on detailed interactions between firms and workers include employment, employment change (individual and firm), and earnings
- ✓ Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex



	14-18	19-21	22-24	25-34	35-44	45-54	55-64	▲ 65-99
2016 Q1	49,071	98,015	142,210	533,445	487,029	537,062	410,748	147,737
2016 Q3	64,488	120,668	146,682	544,748	492,282	540,630	421,537	155,207
2016 Q2	50,009	99,416	144,099	549,200	502,020	553,981	428,274	156,271
2017 Q1	51,867	97,543	140,174	543,025	493,905	538,394	426,367	157,687
2016 Q4	54,241	101,987	146,366	554,623	503,659	551,963	434,131	160,702
2017 Q2	52,549	100,015	140,960	552,667	505,526	548,742	437,978	164,754

- ✓ Analyze/report by firm characteristics: NAICS classification (sector, 3, 4), firm age, and firm size
- ✓ Quarterly data very current (9-12 months old)
- ✓ National and 50 states available (plus DC)

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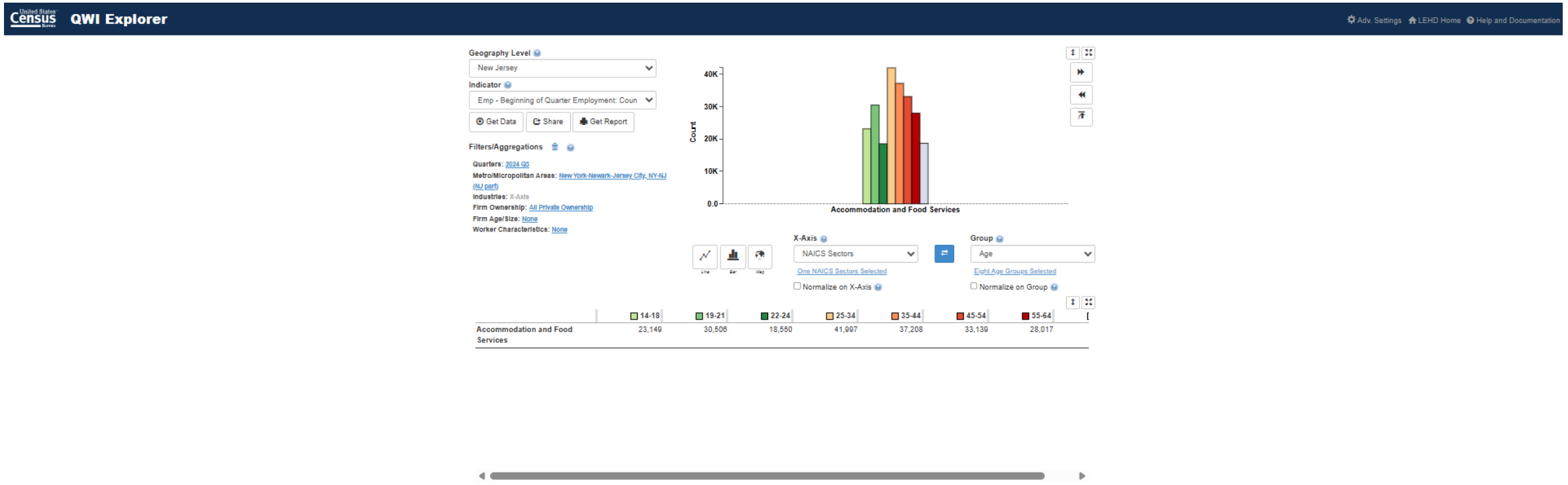
Workers in Accommodation and Food Services by Age



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Earnings by Age

United States Census Bureau **QWI Explorer**

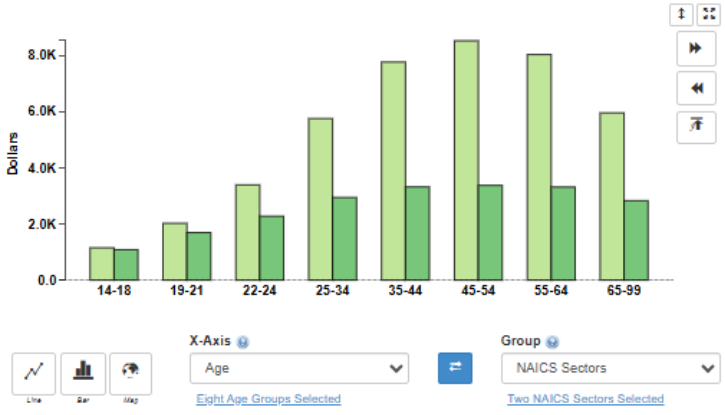
Geography Level: New Jersey

Indicator: EarnS - Full Quarter Employment (Stable): Ave

Get Data | Share | Get Report

Filters/Aggregations

Quarters: 2024 Q3
Metro/Micropolitan Areas: New York-Newark-Jersey City, NY-NJ (NJ part)
Industries: Group
Firm Ownership: All Private Ownership
Firm Age/Size: None
Worker Characteristics: None



	All NAICS	Accommodation and Food Services
14-18	1,155	1,087
19-21	2,027	1,694
22-24	3,397	2,279
25-34	5,761	2,947
35-44	7,773	3,323
45-54	8,533	3,378
55-64	8,041	3,319
65-99	5,964	2,834

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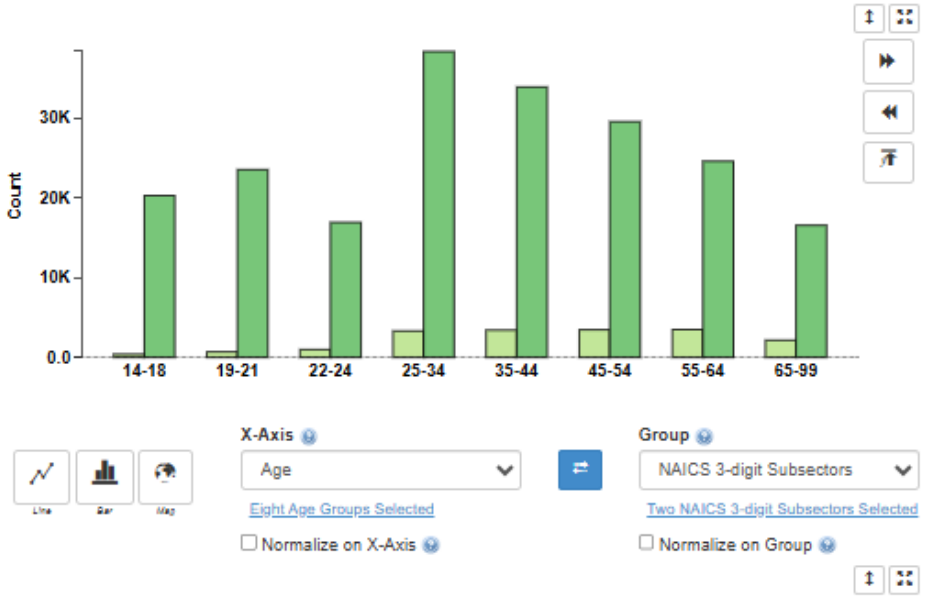
EMPLOYMENT COUNT NAICS 3-DIGIT

Geography Level
New Jersey
Indicator
Emp - Beginning of Quarter Employment: Coun
Get Data | Share | Get Report

Filters/Aggregations

Quarters: 2024 Q4
Metro/Micropolitan Areas: New York-Newark-Jersey City, NY-NJ (NJ part)
Industries: Group
Firm Ownership: All Private Ownership
Firm Age/Size: None
Worker Characteristics: None



	Accommodation	Food Services and Drinking Places
14-18	401	20,297
19-21	693	23,562
22-24	986	16,942
25-34	3,319	38,376
35-44	3,420	33,933
45-54	3,466	29,583
55-64	3,494	24,610
65-99	2,159	16,577

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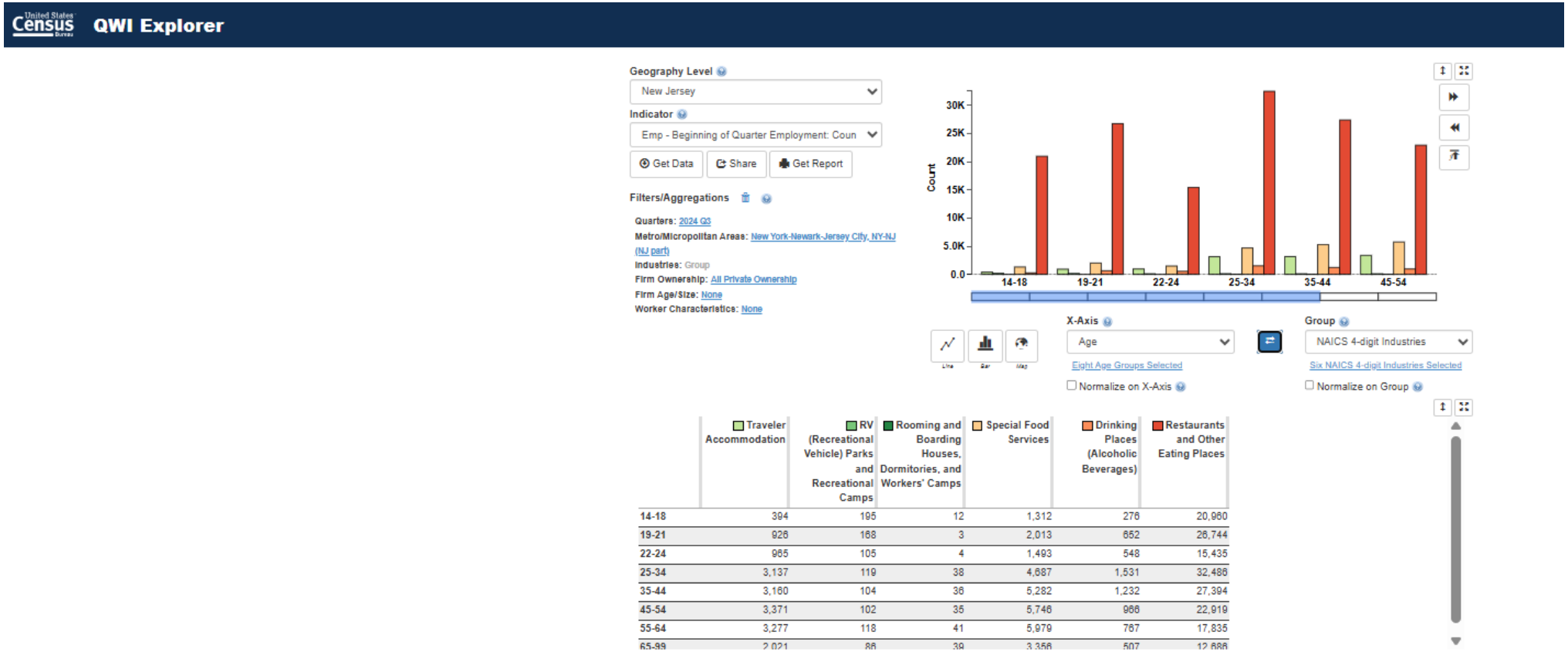
Employment Count NAICS 4-Digit



	Traveler Accommodation	RV (Recreational Vehicle) Parks and Recreational Camps	Rooming and Boarding Houses, Dormitories, and Workers' Camps	Special Food Services	Drinking Places (Alcoholic Beverages)	Restaurants and Other Eating Places
14-18	394	195	12	1,312	276	20,960
19-21	926	168	3	2,013	652	26,744
22-24	965	105	4	1,493	548	15,435
25-34	3,137	119	38	4,687	1,531	32,486
35-44	3,160	104	36	5,282	1,232	27,394
45-54	3,371	102	35	5,746	966	22,919
55-64	3,277	118	41	5,979	767	17,835
65-99	2,021	86	39	3,356	507	12,666

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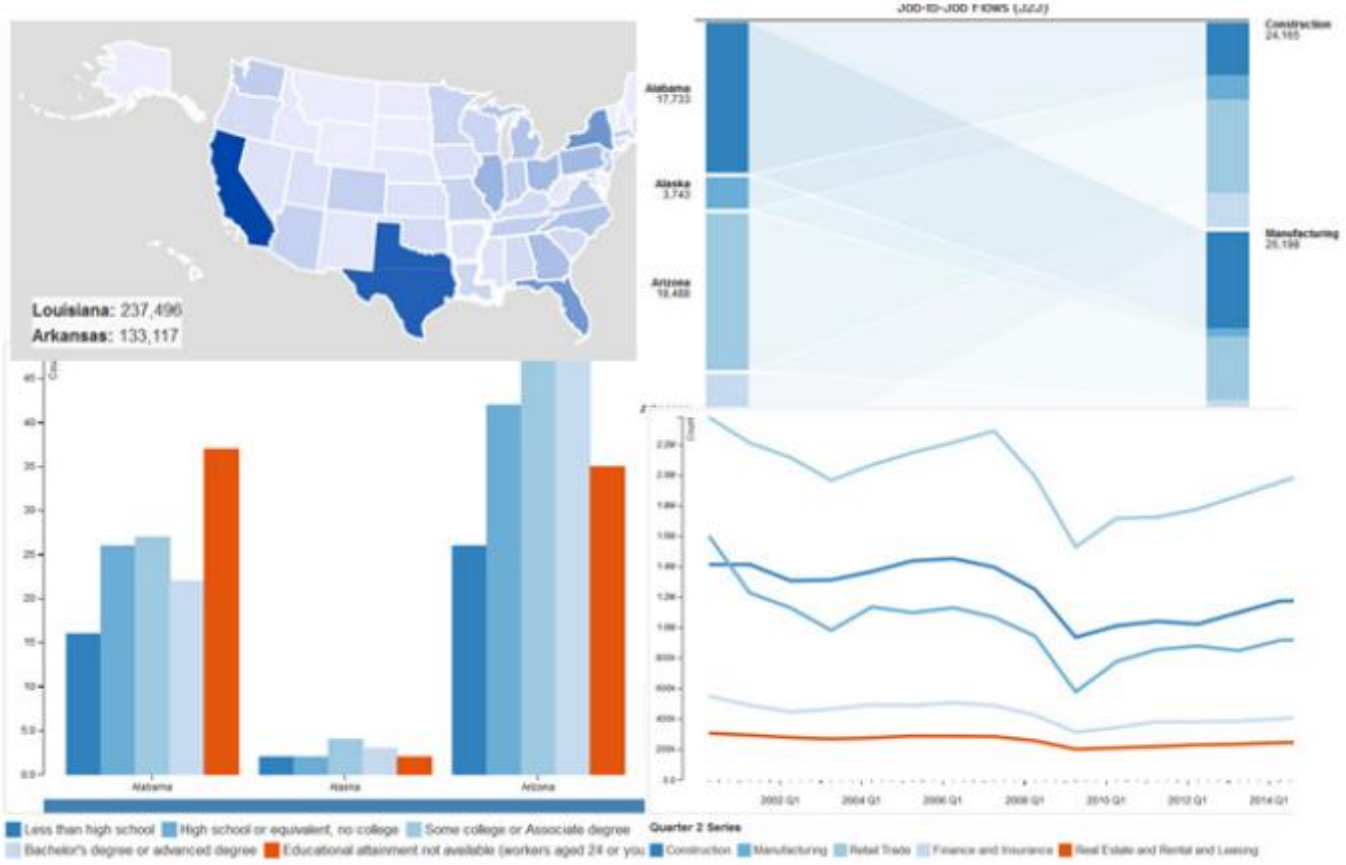
Job-to-Job Explorer

Job-to-Job Flows Explorer Highlights

- **Comprehensive Data Coverage**—Access more than 60 measures of worker reallocation, data going back to 2000 for some states, firm and worker characteristics, and tabulations at the state and metro area-levels.
- **Flexible Dashboard Interface**—Explore worker earnings and flows between industries and geographies by building the exact table, map, line chart, or other chart required to analyze—and inspire subsequent—worker flows questions.
- **Interactive Visualizations and Table Exports**—The six different visualization options provide multiple perspectives on worker flows between jobs or into/out of nonemployment. Data tables can be downloaded as Excel or CSV files.
- **Easy-To-Use Documentation**—Online documentation, including FAQs and walkthroughs, is available through the LEHD Web site at <lehd.ces.census.gov>.



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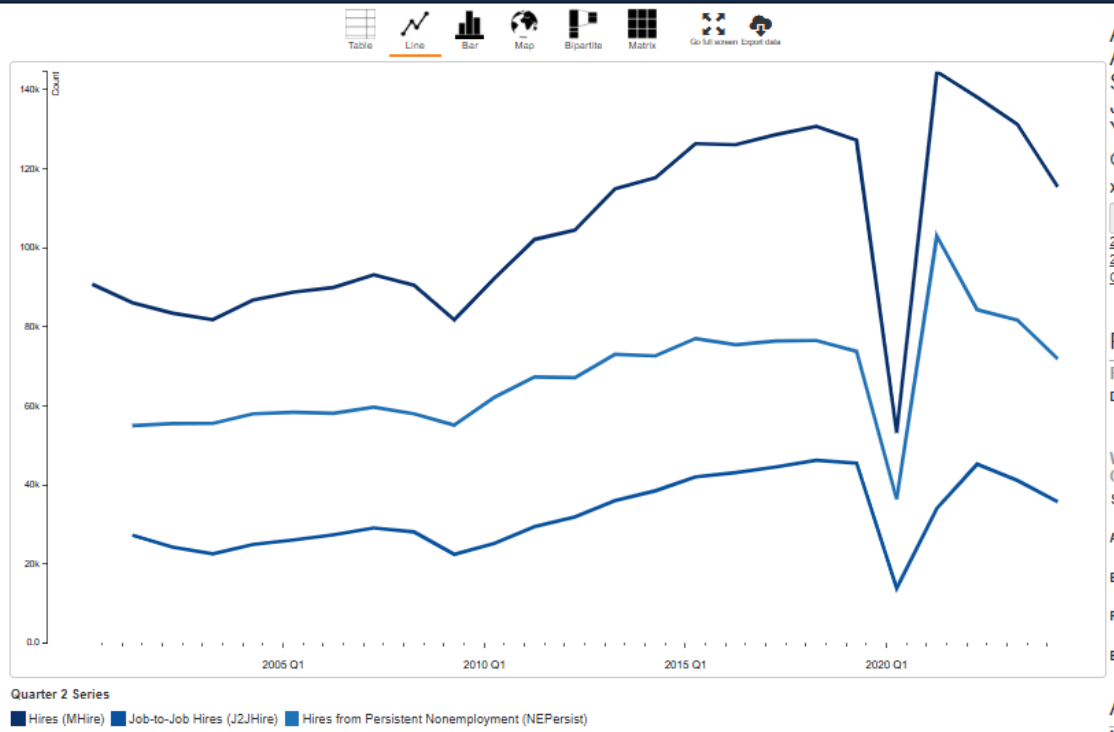
Hires to, Job-to-Job Hires and Hires from Persistent Nonemployment

United States Census J2J Explorer



A Comparison of Hires to Jobs in Accommodation and Food Services in New York-Newark-Jersey City, NY-NJ by Year/Quarter

Q2 Series 2000 - 2024

X-Axis: Year/Quarter — 2024 Q2, 2023 Q2, 2022 Q2, 2021 Q2, 2020 Q2 and 20 Others

Lines: Count Indicators — Hires (MHire), Job-to-Job Hires (J2JHire), Hires from Persistent Nonemployment (NEPersist)

Filters

Firm Characteristics

Destination NAICS Sector: Accommodation and Food Services

Geography

Destination Metro Area: New York-Newark-Jersey City, NY-NJ

Worker Characteristics

Sex: All

Age: All

Education: All

Race: All

Ethnicity: All

Advanced Functions

Normalize: None

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Resources

OnTheMap Analysis Guides

- https://lehd.ces.census.gov/applications/help/onthemap.html#!analysis_guides

OnTheMap for Emergency Management Guide

- https://lehd.ces.census.gov/doc/help/onthemap_em/OTMEM_UserGuide.pdf

QWI Explorer

- https://lehd.ces.census.gov/applications/help/qwi_explorer.html#!example_scenarios

J2J Explorer

- https://lehd.ces.census.gov/applications/help/j2j_explorer.html#!analysis_guides

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Q & A and Thank You!

Contact Information:

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To schedule additional training with a Census Data Dissemination Specialist in your area, please call 844-ASK-DATA
Or email us at: census.askdata@census.gov

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