Washington's Wage Records Demonstration Project: Multi-State Workerforce In-Flow and Out-Flow

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Washington's Wage Records (WR)

- States and Bureau of Labor Statistics partnership
- Washington state Wage Records Demonstration project
- WR comparison and enhancement with other data sets (LEHD)
- Projects coming up for Washington state

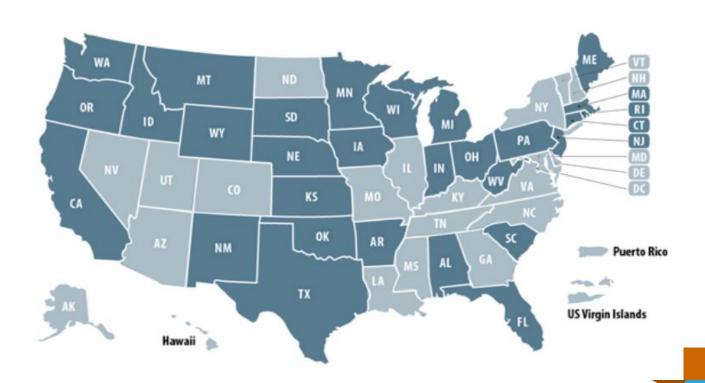
What is Wage Records Program?

Current uses and benefits of WR data

The Wage Records Program (WR)

- An initiative of the BLS that compiles participating state wage records (currently over 29 participating states)
- Purpose is to form multi-state longitudinally linked data set
- National, regional, state and local analysis support and use
- Wage records are a rich data set for the state and multidate workfroce analysis
- State and BLS partnerships offer states data with confidentiality protections at no additional burden

WR Participating States



Wage Records Program Overview

Coverage, Source, Reference

- Extensive UI Coverage
- Data Source Integration
- Quarterly Data Collection
- Research Enabled Data

Uses

- Enhanced Data Quality
- Interstate Standardization
- Public, States and BLS benefits
- Valuable Longitudinal Insight

Washington State Wage Records Project?

Current uses, analysis and findings.

Washington's WR study

- Washington aims to gain valuable insight into workforce movements during and after economic downturns
- Study follows a single quarter cohort of workers
- We are examining job transitions both within and outside the state of Washington, different industries, wages and hours
- Analysis is exploring the relationship between industry retention rates and likelihoods of industry change for workers

Washington's Ware Records study

- With WR we can view a history of worker employment within and out of the state
- We can identify job hires and job separations for the cohort
- We can examine the change (or lack thereof) in wages or hours
- Enhancing WR with other data sets

Washington's WR study limitations

Limitations

- Limited only to participating states
- Workers can reside in the state or out of the state
- Workers can telework
- Workers can hold multiple jobs

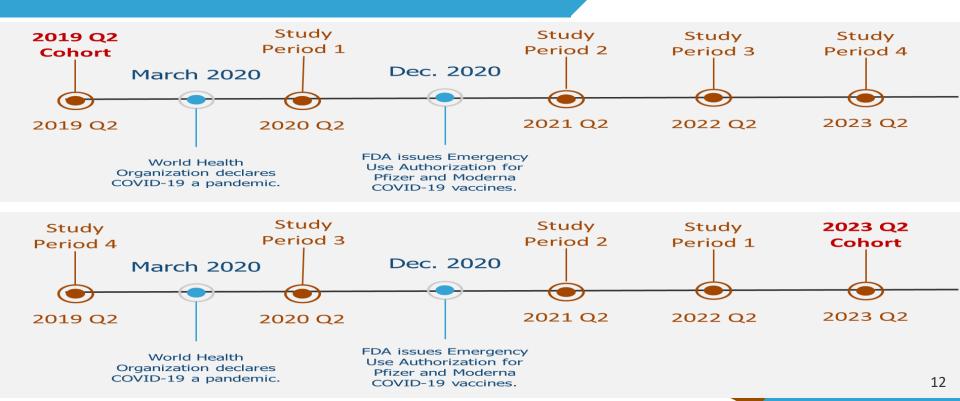
Reasons for separations

- Unemployed and not looking for work (e.g. retired, in school, etc.)
- Working in jobs not covered under states UI (e.g. self-employed, commissioned, federal UI, etc.)
- Working in states outside of Pilot

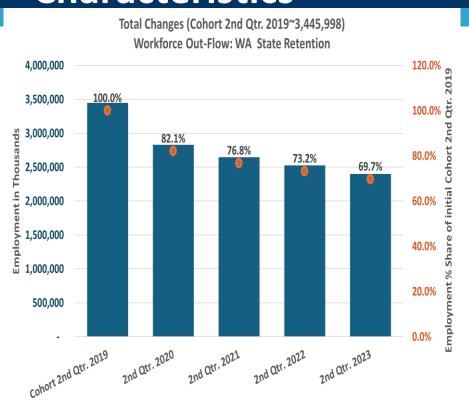
Washington's WR study questions

- Are job-switchers changing geography?
- Are job-switchers changing industry?
- Do workers' wages change when they switch industry and/or geography?
- Do workers' work more or less hours?

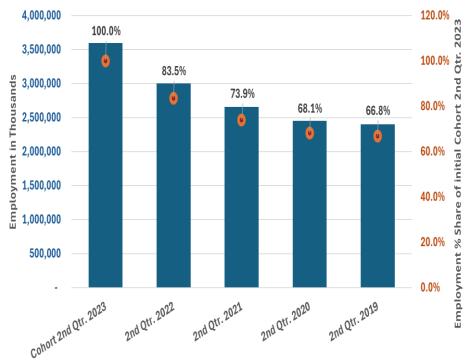
Cohort 2019 Q2 and Cohort 2023 Q2



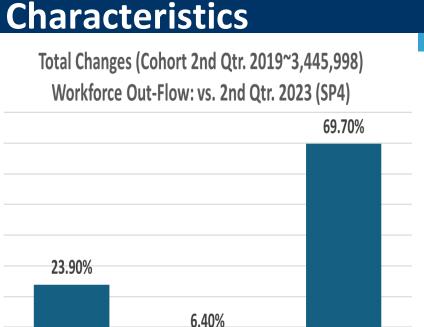
Cohort 2019 Q2 and 2023 Q2 Characteristics



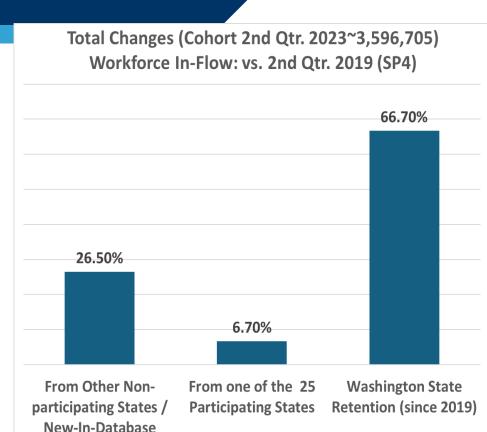
Total Changes (Cohort 2nd Qtr. 2023~3,596,705)
Workforce In-Flow: WA State Attraction



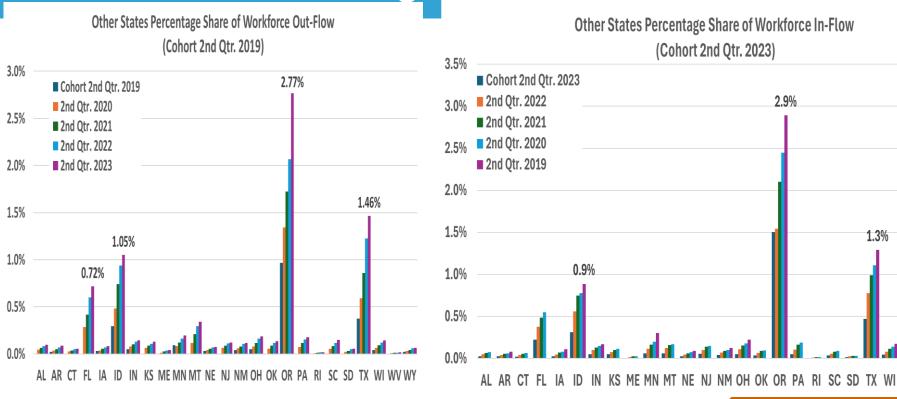
Cohort 2019 Q2 and 2023 Q2



Other Non-participating In one of the 25 Washington State
States Receiver/ Not-In- Participating States Retention
Database



Out-Flow and In-Flow Do Job-Switchers Change Geography?



1.3%

Cohort 2019 Q2 Characteristics Do Job-Switchers Change Industry?

Industry Sector	Total Employment	2nd Qtr. 2019 to	Percentage Retention 2nd Qtr. 2019 to
	2nd Qtr. 2019	2nd Qtr. 2023	2nd Qtr. 2023
Public Admin	14.5%	-24.4%	75.6%
Education and Health Services	12.9%	-29.7%	70.3%
Professional and Business Services	12.4%	-34.0%	66.0%
Retail Trade	11.9%	-31.2%	68.8%
Leisure and Hospitality	10.1%	-35.8%	64.2%
Manufacturing	9.1%	-27.5%	72.5%
Construction	6.5%	-33.7%	66.3%
Financial Activities	4.6%	-29.0%	71.0%
Information	4.4%	-24.1%	75.9%
Wholesale Trade	4.0%	-28.0%	72.0%
Agriculture	3.5%	-39.4%	60.6%
Transportation Warehousing and Utilities	3.1%	-31.6%	68.4%
Other Services	3.0%	-36.4%	63.6%
Mining	0.1%	-34.5%	65.5%

Cohort 2019 Q2 Characteristics

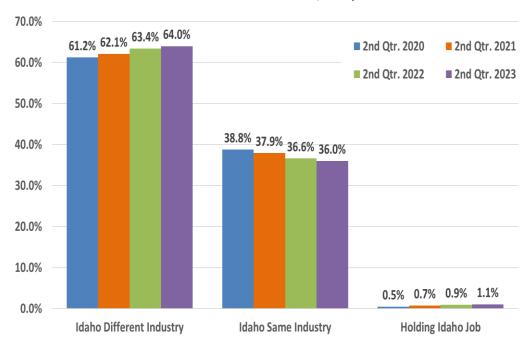
- Are job-switchers changing geography?
 - At least ~6.4% found jobs in participating states
- Are job-switchers changing industry?
 - Around ~30.6% of workers will change industry within 4 years
- Do workers' wages change when they switch industry?
 - On average Qtr. Wage increased ~ 9.5%, while average Hourly Wage increased ~13.4%
- Do workers' work more or less hours?
 - On average Qtr., Hours decreased by 2.8%

Cohort 2019 Q2 Characteristics

- Are job-switchers changing industry when they change geography? Looking at Idaho and Oregon only
 - Around ~62% (going to OR) and 64% (going to ID) of workers will change industry within 4 years
- Do workers' wages change when they switch industry and/or geography?
 - On average Qtr. Wage decreased ~ 18.7% in ID and ~ 11.9% in OR
- Do workers' work more or less hours?
 - On average Qtr., Hours decreased by 19.6% in OR (ID~NA)

Cohort 2019 Q2-Out-Flow to Idaho

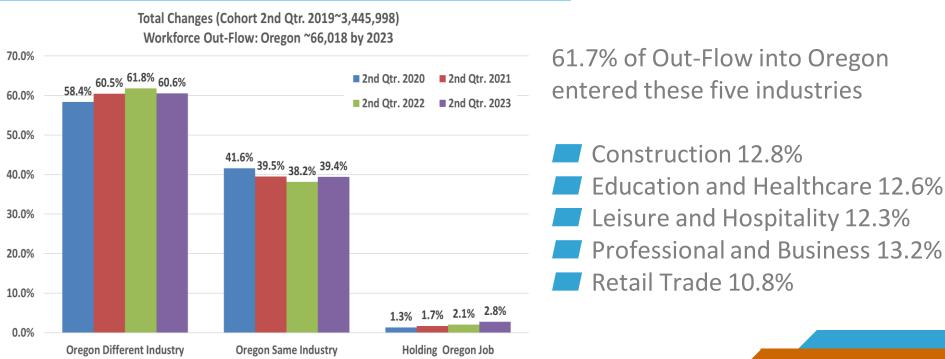
Total Changes (Cohort 2nd Qtr. 2019~3,445,998) Workforce Out-Flow: Idaho ~27,093 by 2023



60.7% of Out-Flow into Idaho entered these five industries

- Construction 9.6%
- Education and Healthcare 13.7%
- Leisure and Hospitality 12.3%
- Professional and Business 12.4%
- Retail Trade 12.6%

Cohort 2019 Q2-Out-Flow to Oregon



How does Wage Records data sets compare to others?

Census data tools and BLS

Wage records vs. Other Data Sources

LED OnTheMap Tool

- Limited to certain number of industries for in-flow and out-flow analysis, it is two study Quarters behind.
- OnTheMap tool can be enhanced with WR industry data
- Wage records don't track Residence to Work moves

J2J Flow Tool

- Compiled from multiple sources, including UI records, census, and survey data, to track job transitions within and across regions.
- Can't cohort studies as WR can
- J2J is enhanced with many demographic and geographic data

What is next?

Where is Washington going with this project?

Opportunities and Possibilities...

- Wage and Hour Data Analysis: Examine state data for worker inflow and outflow patterns.
- Comparative Cohort Analysis: Contrast 2019 Q2 data reflecting COVID-19 impacts with 2006 Q2 data to identify labor movement trends.
- In-depth Movement Study: Investigate the reasons behind worker transitions between industries and locations.
- **Data Enhancement:** Augment Wage Records with additional data such as licensing information, Enhanced WR with SOC and LEHD datasets for comprehensive insights.
- Strategic Utilization: Apply enriched data for decision-making in education, industry planning, and other strategic areas.

Thank you!

Any questions?

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What is Labor Market Information (LMI)?

- Data that describe and predict the relationship between labor supply and demand
- LMI provides data on a variety of subjects:
 - Population and labor force trends
 - Industry and occupational employment trends and projections
 - Wage and benefit information
 - Career information relating to skills and education
- Data are often available at different geographic levels
 - e.g., State, county, metro area, workforce development region, etc.

Credits

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- Presentation and analysis by Ajsa Suljic, Regional Labor Economist
- Work by LMEA-DATA team from ESD and Wage Records team from BLS