

# Advances In Evaluating Labor Force Statistics

Michael Wolf  
FCSM  
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# State Specific Occupational Replacement Rates - Approach

- Quarterly unemployment insurance (UI) records used to measure job movements/transitions by industry – replacements
- Occupational Employment Statistics (OES) staffing patterns convert industry replacements to occupational replacements



# State Specific Occupational Replacement Rates - Findings

- Calculated openings are significantly higher than estimates using national methods (old and new)
- Openings are on the order of magnitude of what JOLTS and HWOL measure



# Concepts

- Method estimates total openings – all job transitions
- National methods do not include transitions within an occupation
- What is the use case for including within occupation transitions?



# Methods

- Measuring replacements by industry and converting to occupations with staffing patterns assumes occupations within an industry behave the same
- UI can't validate this, can CPS?
- Use process in reverse with national numbers – do they match state method industry rates?



# Employment Transitions in Washington State - Approach

- Quarterly unemployment insurance (UI) records used to measure job transitions that cross industries
- Measure transitions relative to long-term industry growth patterns for origin and destination industry
- Compare wages across transitions and between mobile and immobile workers

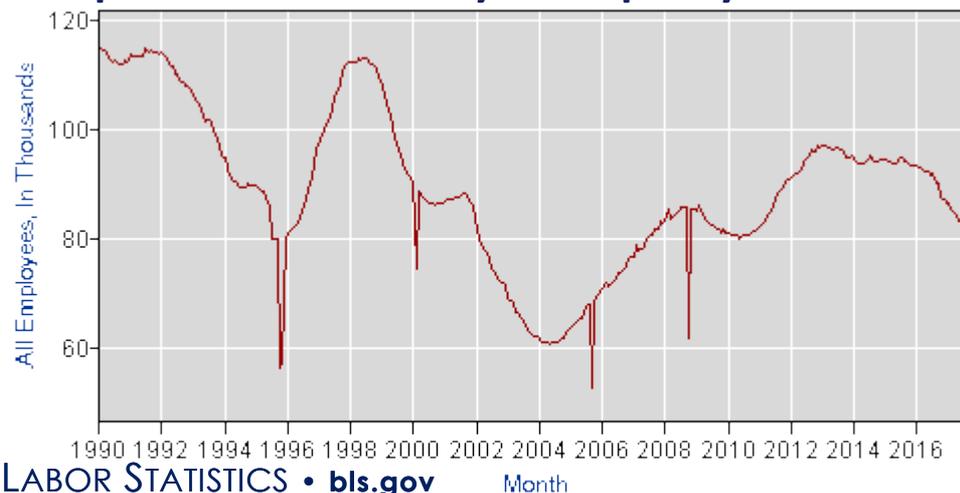


# Transitions - Findings

- Mobility is quite common - one quarter of records in declining industries show transitions
  - ▶ Most common transition is out of labor force
  - ▶ More likely to move to growing than declining industry
  - ▶ Wages are higher for transitions to other declining industries than to growing industries

# Industry trends

- Patterns of growth and decline are measured over the long term (1990-present)
  - ▶ Do short term trends matter?
  - ▶ Does volatility matter?
  - ▶ Ex: Aerospace industry employment in WA:



# Wage trajectories

- Ideally, would know education level, occupation, and experience
  - ▶ Without these, comparisons across transitions more interesting
- How do wage changes compare with industry averages?
- What is the distribution of wage changes?

# Contact Information

**Michael Wolf**

**Division Chief**

**Employment Projections Program**

**[www.bls.gov/emp](http://www.bls.gov/emp)**

**202-691-5714**

**[wolf.michael@bls.gov](mailto:wolf.michael@bls.gov)**

