



Alabama/Arkansas

Unemployment Claims Resource Planning Dashboard DOL ETA Applied Data Analytics Project Final Presentation

The Goal

Inform workforce boards for timely and effective allocation of limited resources in a dynamic environment.

The Proposed Solution

- UI Strategy Context
 - Informed by WIOA barriers and workforce board strategies and resources
- Longitudinal Metrics Relative to Claimant Benefit Year
 - For additional context on claimant population
 - For informing risk of exhaustion

Resource Planning Strategy









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Exhaustion Rates As Indicator of Risks

Exhaustion Rates by All Sector All Education All Ages All Income



Active Claimant Dashboard

• Looking at active claims per cumulative claims within the Accommodations Industry, we see the bulk of claimants are long-term with growing bands of high-risk



Risk by Age Groups and Weeks



Low Risk Claimants by Age Group



Risk by Subgroup

Exhaustion Rate by Subgroups

Accommodation and Food Services- Adult - Bachelor Degree or Above - N Accommodation and Food Services- Adult - Some College or Associate - N Accommodation and Food Services- Senior - Some College or Associate - N Accommodation and Food Services- Senior - High School or Less - N Arts, Entertainment, and recreation- Senior - Bachelor Degree or Above - N Accommodation and Food Services- Adult - High School or Less - N Accommodation and Food Services- Senior - Bachelor Degree or Above - N Accommodation and Food Services- Senior - Some College or Associate - Y Information-Adult - High School or Less - Y Accommodation and Food Services- Adult - Some College or Associate - Y Arts, Entertainment, and recreation- Senior - High School or Less - Y Accommodation and Food Services- Senior - Bachelor Degree or Above - Y Accommodation and Food Services- Senior - High School or Less - Y Accommodation and Food Services- Adult - High School or Less - Y Arts, Entertainment, and recreation- Senior - High School or Less - N Public Administration- Adult - High School or Less - Y Arts, Entertainment, and recreation- Adult - High School or Less - Y Professional, Scientific and Technical Services- Senior - High School or Less -Professional, Scientific and Technical Services- Adult - High School or Less - Y



Informed Strategic Planning

• Strategy

- Engage industries with low exhaustion rates-Manufacturing and Healthcare to determine their immediate needs
- Adult and Dislocated Worker programs work with the business service teams to develop solutions
 - The most at risk are Highschool level or lowerpossible Adult Education, Adult, and Dislocated Worker partnership focused on outreach and training programs
 - Some potential to add SCSEP as a partner
- Youth appear to be lower risk of exhaustion and should be analyzed with a shorter intervention window
- Risk subgroups identify next rounds of risk analysis

Next Steps

- Additional research or validations that we identified but did not include in the project scope
- Longitudinal and multi-dimensional risk scoring combined with machine learning to improve accuracy
 - Ability to watch risk bands move into strategic intervention window
- Demand analysis to improve business outreach strategies-
 - Changes in job posting data to inform current changes in LMI Projections
- Include asset mapping for non-profits and Federal programs that focus on specific subgroups
- Additional view to support co-enrollment strategies
 - Matrix of potential partners for each risk subgroup
- Add underserved population indicators
- Add geographic risk

Appendices

Literature Review

Duration of nonemployment spell is strongly associated with earning losses

Fallick, Bruce, John Haltiwanger, Erika McEntarfer, and Matthew Staiger. 2019. "Job-to-Job Flows and the Consequences of Job Separations." Federal Reserve Bank of Cleveland, Working Paper no. 19-27. https://doi.org/10.26509/frbc-wp-201927.

Exhausters appear to be more likely to leave the labor force

Luojia Hu, and Shani Schechter. 2011 "How Much of the Decline in Unemployment is Due to the Exhaustion of Unemployment Benefits." Federal Reserve Bank of Chicago, Chicago Fed Letter no.. 288. <u>https://www.chicagofed.org/publications/chicago-fed-letter/2011/july-288</u>.

Many individuals leave the unemployment system when their benefits expire without returning to work

David Card, Raj Chetty, and Andrea Weber. 2007. "The Spike at Benefit Exhaustion: Leaving the Unemployment System or Starting a New Job?". The American Economic Review. 97(2):113-118.

Workforce Board Survey

- Surveyed Arkansas Workforce Boards for Needs
- Agreed that:
 - Comparing existing workforce experience to more current demand projections would be beneficial
 - Analyzing the work history and demographics of the most vulnerable cohort would be helpful in resource planning
 - Analyzing both together would help establish local pipelines, business outreach strategies, and resource planning
- Added
 - The importance of realtime skills gaps analysis
 - Metro/city level data
 - Mapping of local programs and services to push the analysis towards additional resources

Project Design







Top/Bottom Subcohorts by % Increase (Highlight emerging/decreasing exhaustion risk to inform planning)

(Highlight highest reattachment



Top/Bottom Subcohorts by % Increase (Highlight emerging/decreasing reattachment/recovery areas to inform resource planning)

Dimensional Model



Longitudinal Analysis



Inferring Re-Employment

- We are inferring reemployment based on pre-exhaustion exit, which requires additional literature review and validation.
- A DOL ETA UI Reemployment Pilot found
 - Exhaustion rates are *not* a good proxy for Q+1 reemployment rates
 - Exhaustion rates are a good proxy for Q+2 reemployment rates
 - It appears that in general exhaustion rates for the second quarter probably understate reemployment rates by at least 10 percent

https://oui.doleta.gov/unemploy/reemploypilot.asp -