



California Ag & Migrant Worker Local Area Unemployment Rate Analysis

Capstone Project: Josh Ruggles



Business Problem

- California Employment Development Department
- Less education = Higher Unemployment Rate

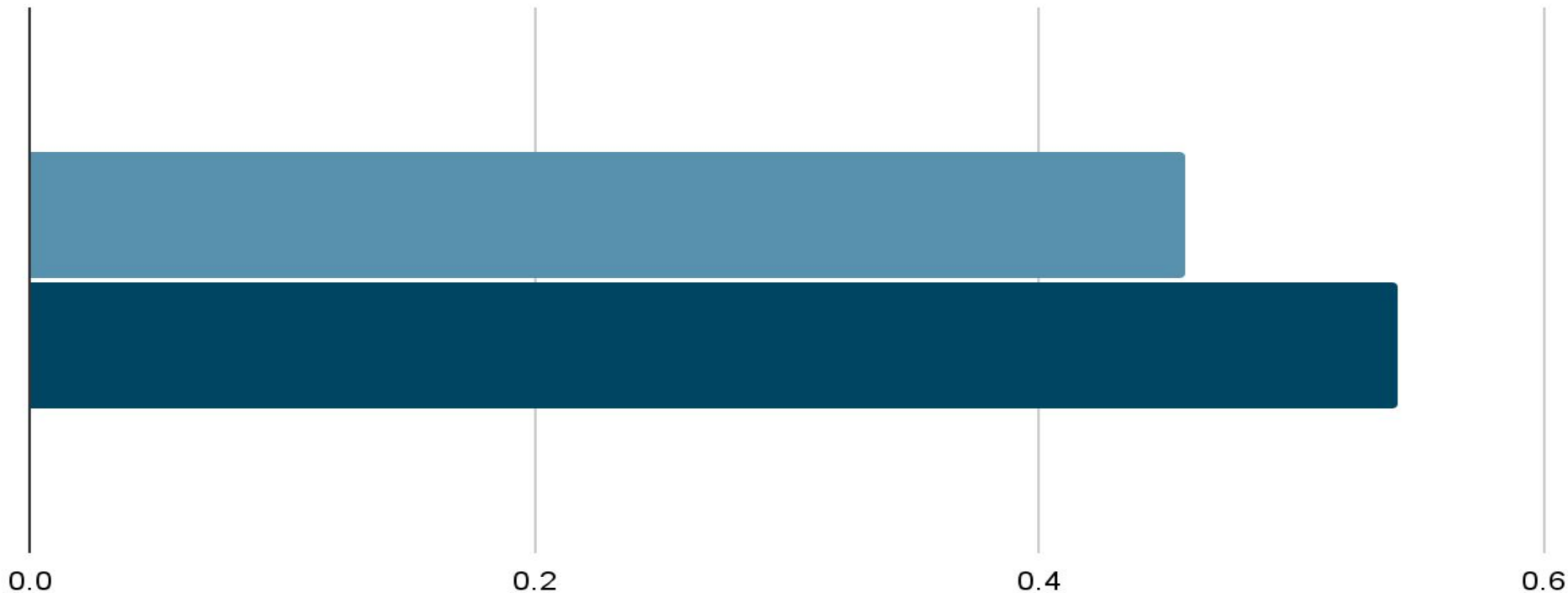


Candidates & Rationale

- Ag/Migrant workers: highly skilled
- Limited educational opportunities

Feature Importance: Education and Rate of Unemployment

■ High School Grad ■ 4 Year College Degree



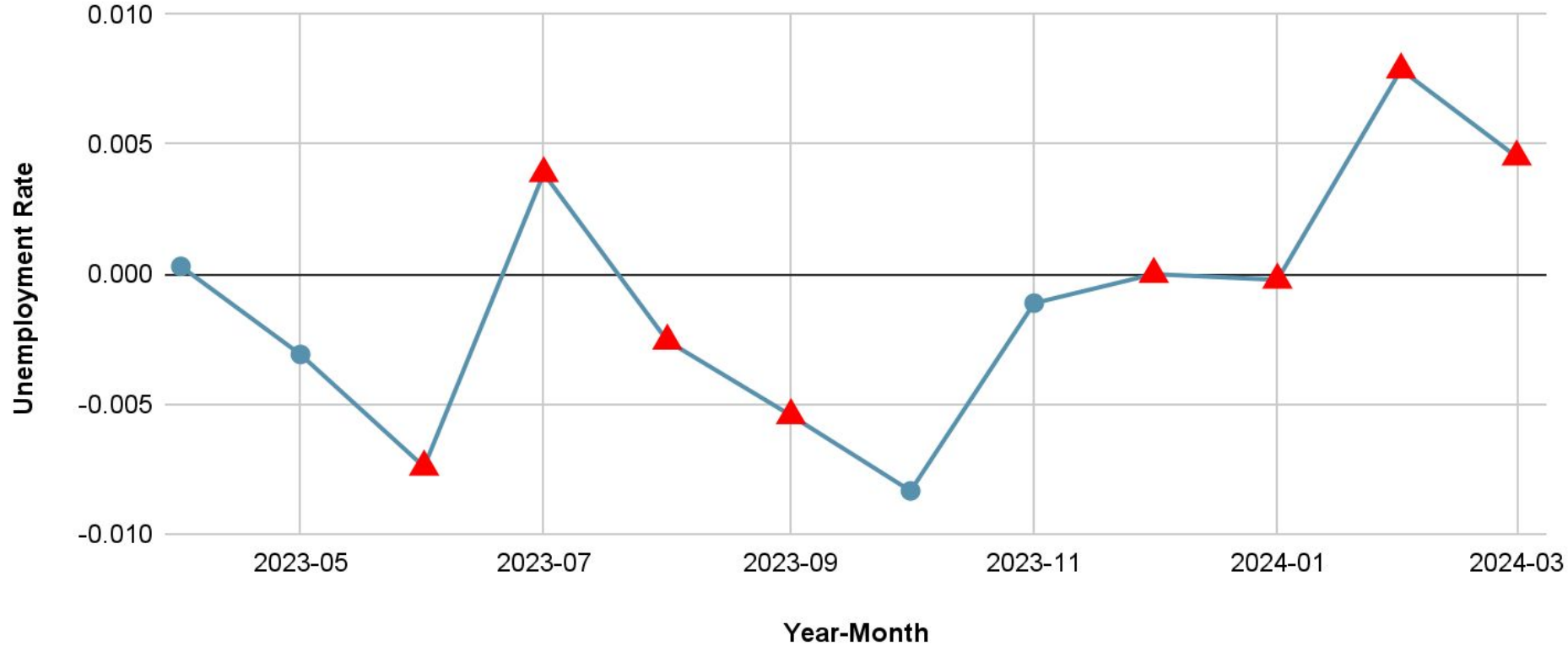
Lower Unemployment = Higher Education



Method of Analysis

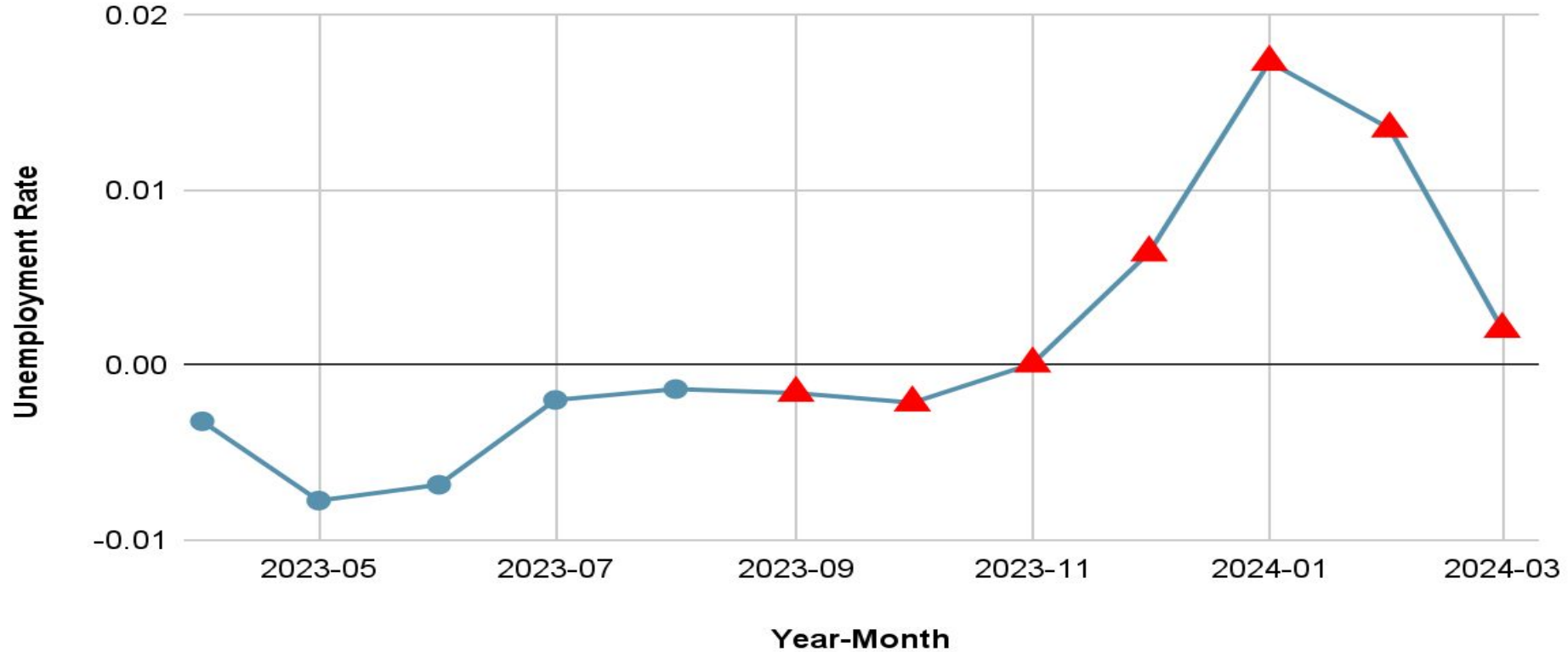
→ Time Series Analysis

Fresno County Unemployment Rate Prediction



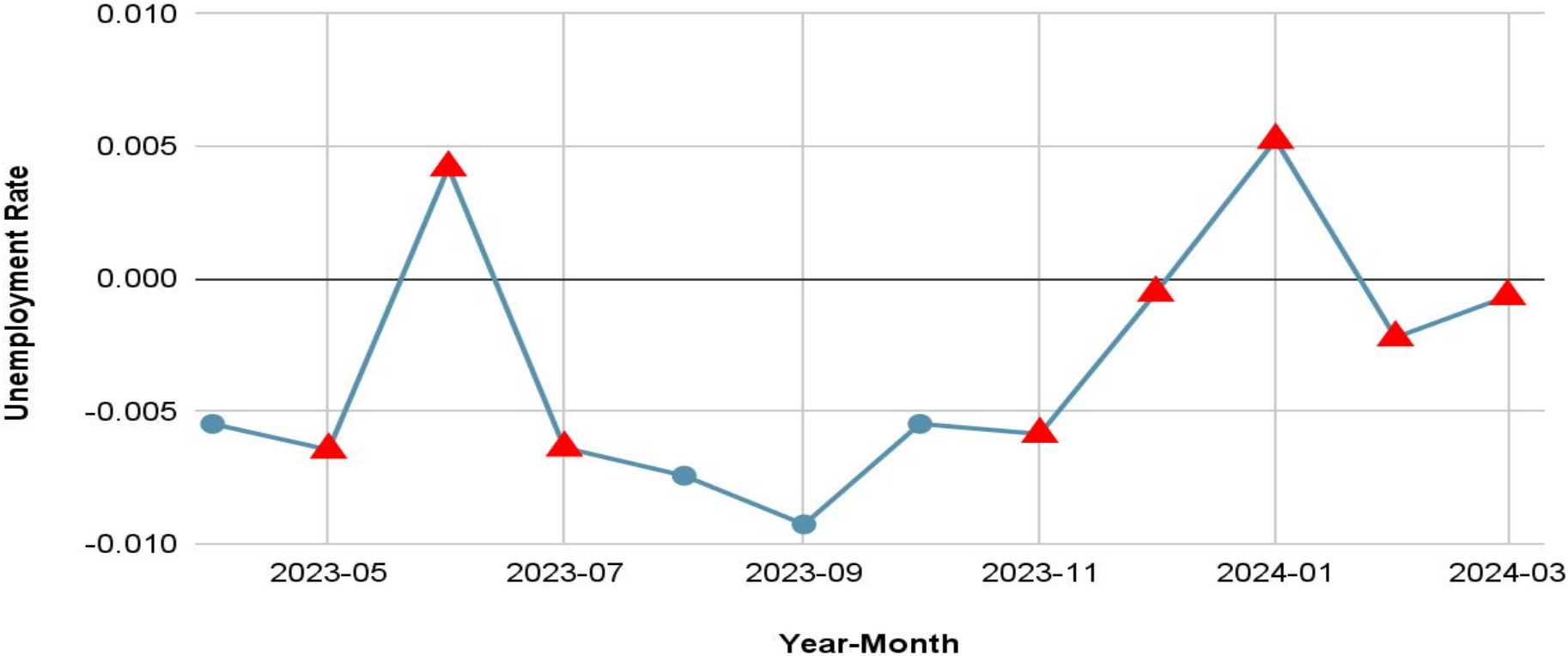
8,206 ag workers \approx 1,025 skilled trade workers

Monterey County Unemployment Rate Prediction



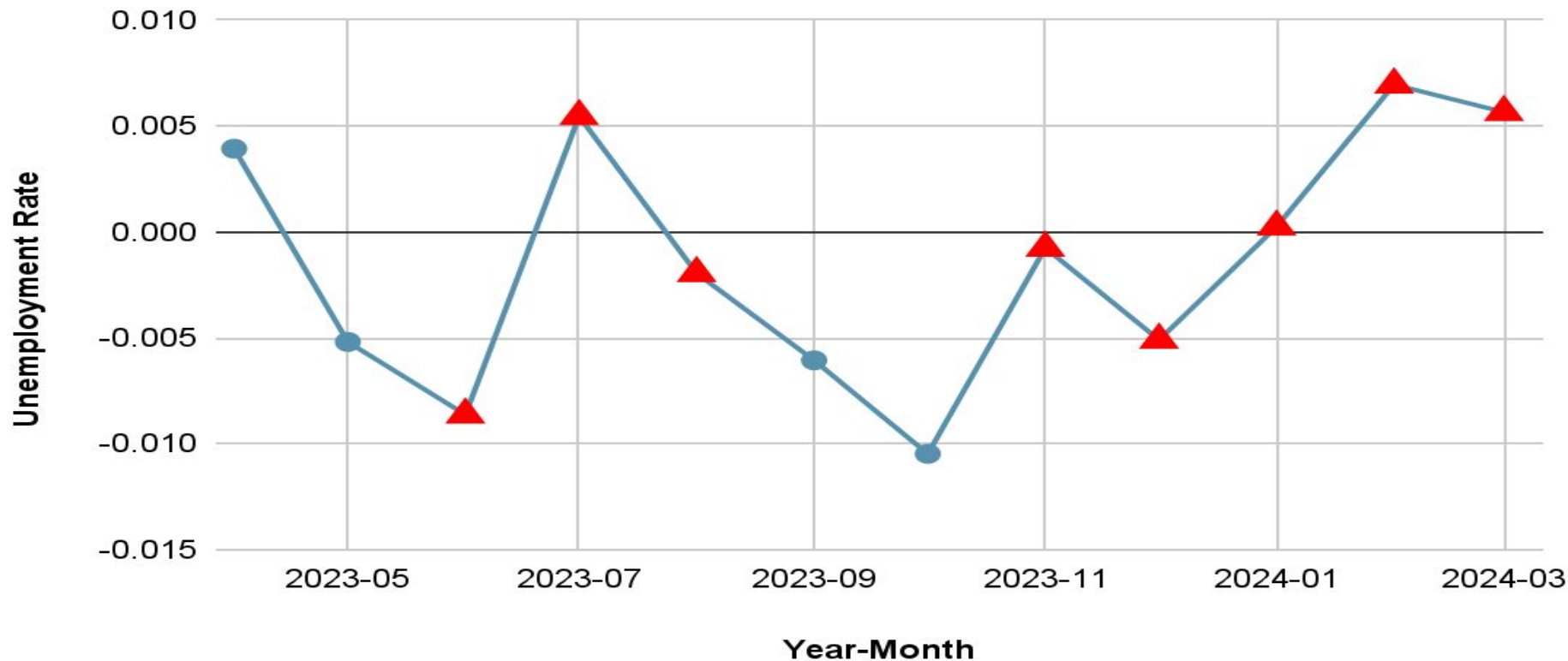
1,944 ag workers \approx 243 skilled trade workers

Kern County Unemployment Rate Prediction



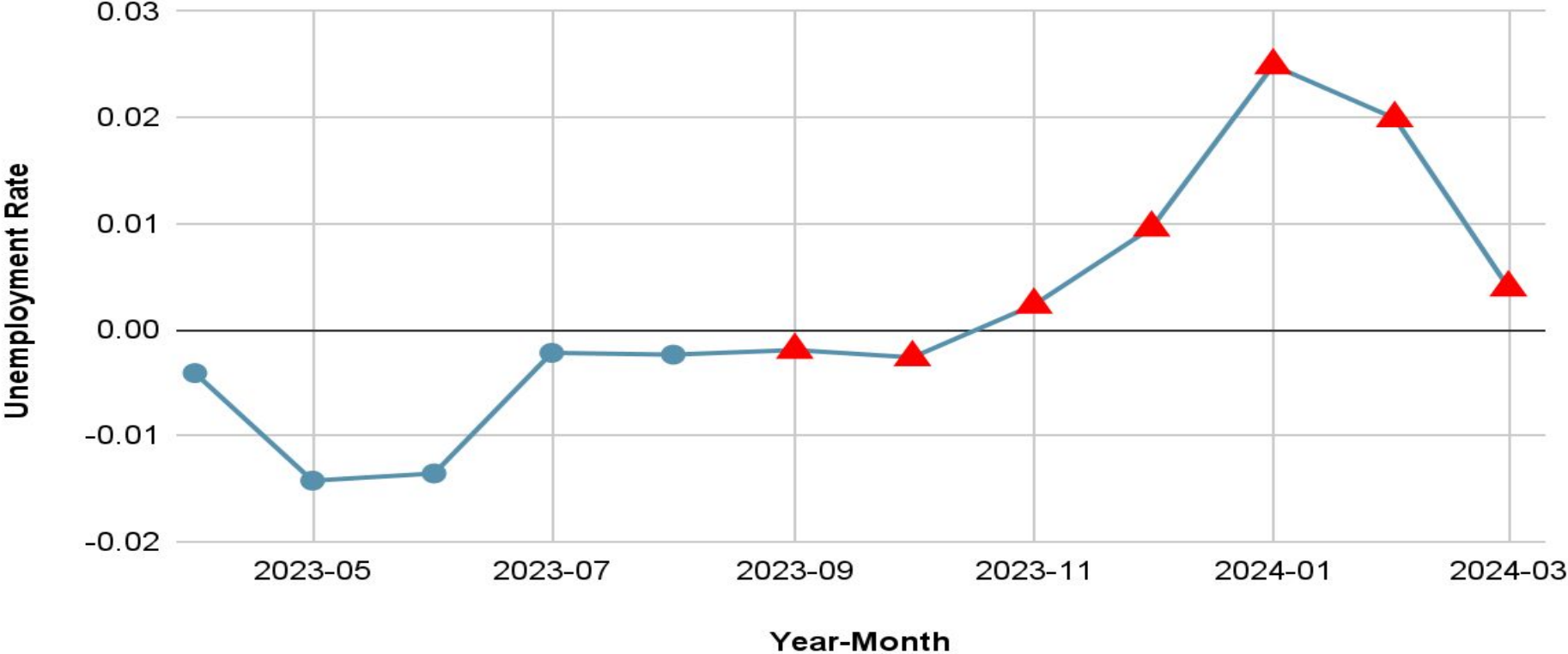
3,159 Ag workers ≈ 394 skilled trade workers

Tulare County Unemployment Rate Prediction



7,163 ag workers \approx 895 skilled trade workers

San Joaquin County Unemployment Rate Prediction



6,167 ag workers \approx 772 skilled trade workers



Limitations of Data

→ # of Ag/Migrant workers in employ



Concluding Remarks

- Extensive: increase labor force
- Intensive: raise participation
- Enhance: skill training



Thank You!

→ For questions or concerns please contact:

◆ -Josh Ruggles: jkrugg@gmail.com