

# Looking to the Future: A Strategic Water Plan for the West Valley

**With the City of Goodyear for the West Valley**  
Mark Holmes, Water Resources Manager

**Arizona State University**  
J. Leah Jones, Rachael Rosenstein, Benjamin Strouse



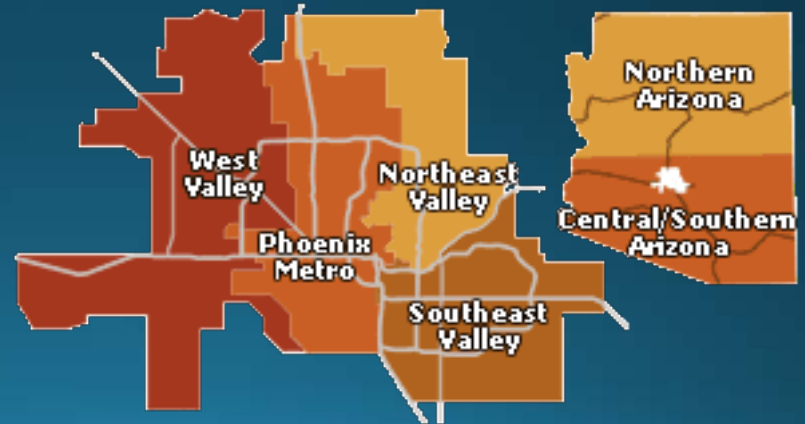
# Outline

1. Background and Problem Statement
2. Current Challenges in the West Valley
3. Comparison of Regional Plans
4. Recommendations
5. Conclusion

# Background and Problem Statement

# Background

- Semi-arid city of 4.5 million people
- Water supply:
  - a. Surface water - Surface water rights
  - b. Central Arizon Project (CAP) water
  - c. Groundwater - Groundwater Management Act
  - d. Effluent
- Water is a challenge



# Sustainability Problem

- Water access and sources
  - CAP
  - Groundwater and recharge
  - Salt River Project (SRP)
- Population growth
- West Valley Water Association



# Current State of the West Valley

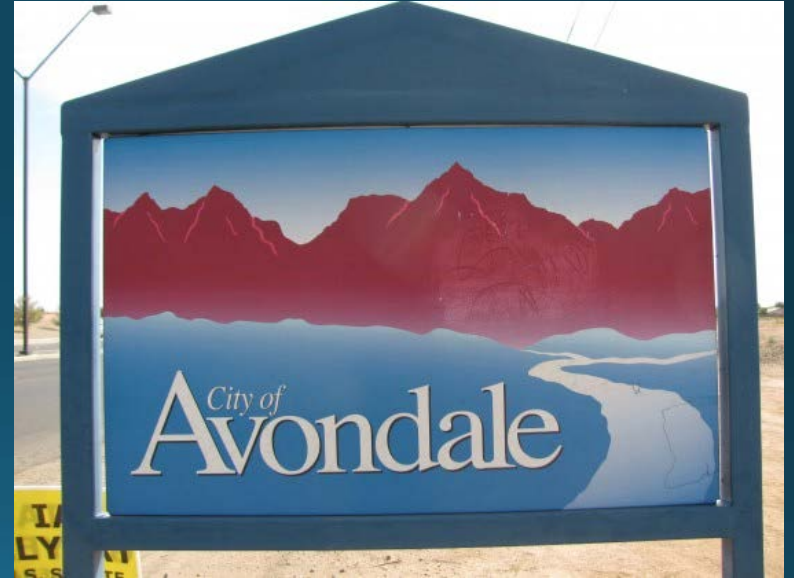
# WV Current Plan and Challenges: City of Goodyear



- Challenges:
  - Increasing population
  - No access to SRP water
  - Indirect access to CAP water
    - CAGRID
- General Plan (2016):
  - Increase supply
  - Decrease demand

# WV Current Plan and Challenges: City of Avondale

- Challenges:
  - Increasing population
  - Indirect access to CAP water (CAGRID)
  - Outdoor water use
- Colorado River Basin Study
  - Collaboration between West Valley cities regarding their joint water usage
  - Recommends using a more central water recharge station





# WV Current Plan and Challenges: City of Peoria



- Challenges:
  - Population
  - Colorado River shortages
  - SRP allocations
  - Over-pumping groundwater
- Drought Management Plan (2017)
  - Providing safe water to the public
  - Maintaining the economy
  - Plan ready to implement in shortage or drought
- Drought protection strategy

# Comparison of Sub-regional Plans

# WESTCAPS Strategic Plan

- Original multi-city water organization in the West Valley
- Strategic Plan:
  - Marketing, branding, and communications
  - Advocacy and lobbying
  - Policy and planning

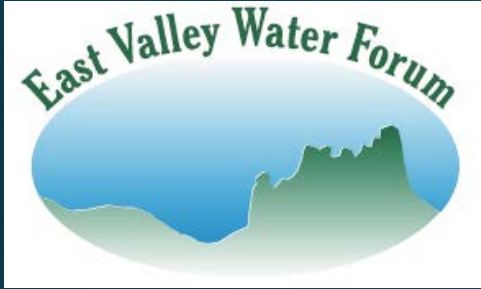
## What is WESTCAPS?

- West Valley CAP Subcontractors
- Collaboration of municipal and private water providers, and interested water agencies, working together to develop regional solutions to plan for the future of water in the West Valley.
- Our Mission is to develop a cost effective, quality water supply; engage in water resource planning and management; and develop regional partnerships for water in the West Valley.



***WEST VALLEY WATER***

# Comparable Region: East Valley Water Forum



- EVWF located in Phoenix East Valley
- Challenges of East Valley:
  - Depleted groundwater resources
  - Water stress caused by drought
- Strengths:
  - Multi-city organization with many types of members
  - Scientific reports and policy recommendations
- Weakness:
  - No formal evaluation of effectiveness

# Recommendations for the Strategic Plan

# Create Policy Recommendations

**Goal: Influencing regional policy to work towards greater water security in the West Valley**

- Studies and research should include clear policy recommendations that can turn reports into legislative change
- Policy recommendations should include specific activities and options on how to achieve the policy goal

# Formal Evaluation of Policy Recommendations

**Goal: Providing an organizational structure to assess management plans and implementation**

- Incorporate a plan to follow through each recommended action
- Checkpoints throughout all stages
- Reflect on what will or will not be successful in the West Valley
- Track success or failure of the proposals

# Outdoor Water Use Recommendation

**Goal: Targeting factors that influence outdoor water usage in the West Valley**

- Work with the local and state governments, plumbing companies, and manufacturers
- Urge HOAs to review and revise their policies to include and encourage natural/desert landscaping



# Conclusion



**Problem:** increasing population adds stress to limited water resources

**Goal:** WVWA as a sub-regional water planning and action organization to increase water security within strategic plan

**Recommendations:**

1. Create Policy Recommendations
2. Formal Evaluation of Recommendations
3. Reduce Outdoor Water Use Demand

Questions?