


Lower Santa Cruz River Basin Study Overview - Key Slides

What is the Lower Santa Cruz River Basin Study?

Three year, \$785,750 partnership between Reclamation and partners to:

- Project future supply/demand imbalances (due to climate change and other factors)
- Evaluate risks to infrastructure and other systems
- Develop and investigate adaptation strategies (structural and non-structural)
- Perform trade-off analysis of strategies

Planning horizon: today through 2060



LSCR Basin Study Area is identical to Tucson Active Management Area

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LSCR Basin Study Objectives

- 1) Identify Where Physical Water Resources are Needed to Mitigate Supply-Demand Imbalances
- 2) Develop Strategies to Improve Water Reliability for Municipal, Industrial, Tribal, Agricultural and Environmental Sectors



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Water for the Environment

- Includes analysis of riparian areas
- Local subject matter experts will select areas of interest and type of analysis
- Adaptation alternatives include ways to meet environmental needs



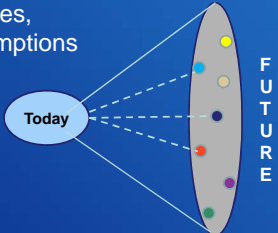
Source: Pima Association of Governments

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Scenario Planning

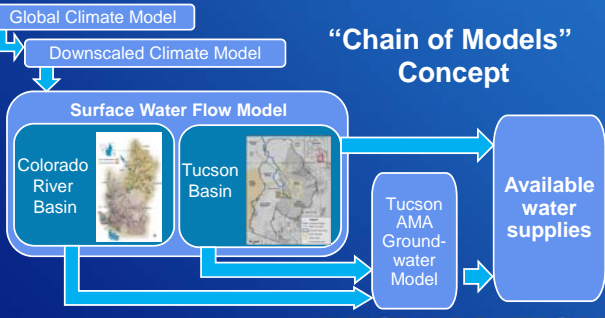
Scenarios: plausible futures, based on consistent assumptions

- *Climate scenarios:* based on amount of greenhouse gases that will be emitted to the atmosphere in the future
- *Socio-economic scenarios:* include demographic changes, changes in the economy, water conservation rates



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“Chain of Models” Concept



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LSCR Basin Study Summary

- Addresses impacts of changing climate, population and water use rates through 2060
- Focus on spatial distribution of resources in basin
- Includes water for the environment
- Scenario approach to explore range of futures
- State-of-the-art models and climate projections
- Public invited to become Stakeholder Advisors

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