

**Colorado River Basin Supply and Demand Study**

What Did We Learn?



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**Colorado River Basin Study Purpose**

- Define future imbalances in the water supply and demand for Colorado River water
- Analyze adaptation and mitigation strategies to resolve those imbalances
- Define Next Steps to continue to **work together** to shore up assumptions and verify analyses
- **NOT A DECISIONAL DOCUMENT**

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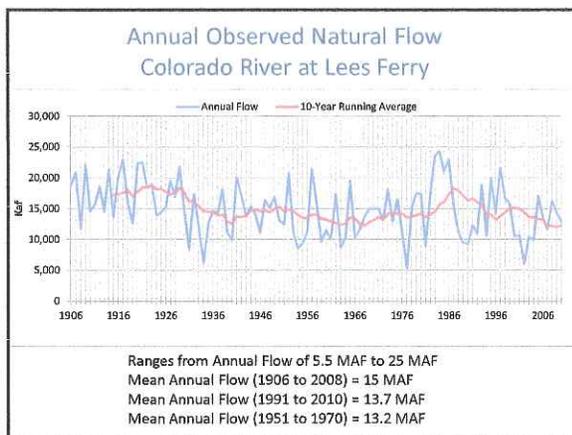
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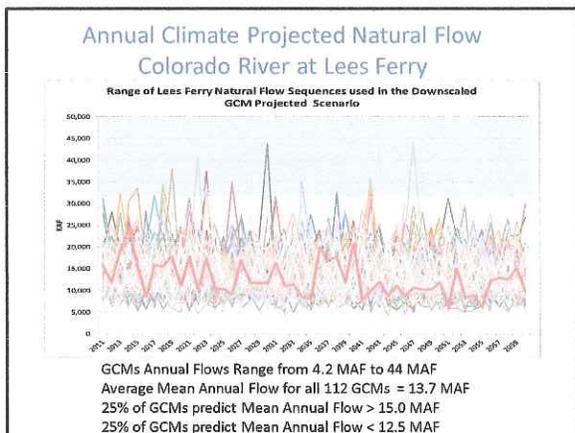
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### Supply “Lessons”

- Colorado River Natural Flow will continue to be highly variable, with potential periods of much higher and much lower flows
- Colorado River Storage Project reservoirs will continue to be critical to allow any future Upper Basin development

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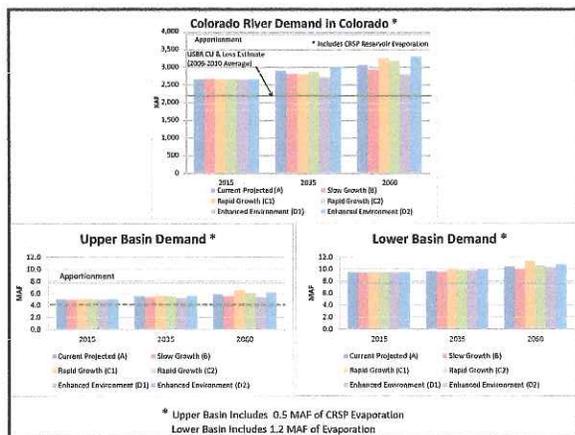
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### Demand "Lessons"

- Historically, Upper Basin States projected higher demands to "protect" their apportionment
- Higher demands have been used in Decisional Documents – resistance to more realistic values
- Basin Study demands additionally inflated to reflect that ALL future adjacent area demands would be met from the Colorado River

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### Imbalance "Lessons"

- Imbalance in Basin Study is 3.2 MAF by 2060
- Imbalance assumes all Adjacent Area demand must be met from the Colorado River
- Imbalance does not include current planned move towards conservation
- Future imbalances cannot be ignored, but could be refined based on more realistic assumptions

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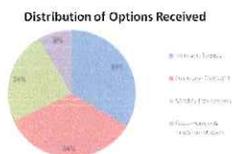
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### Options to Mitigate Imbalances

- Options and Strategies investigated
  - Increase Supply (Desalination, Pipelines, Weather Modification)
  - Reduce Demand (Agricultural and Municipal Conservation w/ or w/o Water Banking, Agricultural Transfers)
  - Modify Operations (Reservoirs Operations, Evaporation Control)




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### Options and Strategy "Lessons"

- Potential Compact Curtailment will be seen in advance
- Opportunities and potential legal/technical conservation issues need to be investigated now
- New supply options need to go/no go soon due to permitting issues
- Options that reduce several vulnerabilities should move to the head of the line (Reduce Compact Curtailment *and* provide environmental flows)

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### Cooperation "Lessons"

- Basin States have long history of working together to resolve pending issues and avoid litigation
  - Interim Guidelines and Lower Basin overuse
  - Minute 319 and shortage sharing
  - Hydrologic Determination in Upper Basin States
  - Environmental Flows through the Grand Canyon
- Precedent for Basin Study Next Steps to pave the way for agreements to avoid Compact Curtailment

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