Reservoir Protection Actions

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Colorado River Shortage Risk: CAP Management Programs

- **Storage and Recovery**
  - 3.4 MAF of underground storage for future recovery for CAP cities, on-River communities, and tribes

- **Lake Mead Reservoir Protection**
  - Interstate plan targeting 740 KAF of new storage in Lake Mead
  - CAP’s share is 345 KAF by 2017

- **Innovative Conservation**
  - Interstate funding to conserve 75 KAF to protect Lake Mead/Powell
  - Conservation research grant program

- **Augmentation**
  - Weather modification projects in the Upper Basin
  - Local and binational desalination
Arizona Colorado River Reservoir Protection Actions

- Actions to protect Lake Mead elevations to avoid or reduce the risk of shortages,
- Focus on conserving and reducing Colorado River water uses:
  - Arizona
  - Interstate
  - International
- Separate from the significant conservation efforts and programs implemented by CAP customers
  - Municipal
  - Ag
  - Industrial
Overview of MOU: Lake Mead Reservoir Protection

Parties: CAP, ADWR, BOR, MWD, CRBC, SNWA, & CRCN

Create 740 KAF of additional storage in Lake Mead ‘14-’17

- CAP = 345 KAF
  - ~145 KAF “system water”
  - ~200 KAF ICS
- MWD = 300 KAF
- SNWA = 45 KAF
- BOR = 50 KAF
CAP Reservoir Protection Plan

• **345 KAF** in ‘14 – ‘17
  - Intentional creation of system water
    - Total ~ **145** kaf
  - Extraordinary Conservation ICS Program: Demand Reduction
    - Up to 100 kaf/yr in ’15 and ’16
    - Total up to 200 kaf
  - Attempting to achieve 345 kaf by end of 2016
  - Shortage projected in ‘17 with NO ACTION
# CAP’s Reservoir Protection Volume Plan (values in 1,000 af)

<table>
<thead>
<tr>
<th>NAME</th>
<th>‘14</th>
<th>‘15</th>
<th>‘16</th>
<th>‘17</th>
<th>Total</th>
<th>Note</th>
</tr>
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<tbody>
<tr>
<td>YMIDD Fallowing</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>0</td>
<td>21</td>
<td>System water</td>
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<tr>
<td>Ag Pool EC-ICS</td>
<td>0</td>
<td>81</td>
<td>80</td>
<td>0</td>
<td>161</td>
<td>9 CAP Ag Districts</td>
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<td>Supply Replacement EC-ICS</td>
<td>0</td>
<td>15</td>
<td>15</td>
<td>0</td>
<td>30</td>
<td>PHX in ‘15, Others ’16</td>
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<td>Creation of Az Unused (“2.B. VI”)</td>
<td>30</td>
<td>59</td>
<td>44</td>
<td>0</td>
<td>133</td>
<td>Intentional forbearance</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>37</td>
<td>162</td>
<td>146</td>
<td>0</td>
<td><strong>345</strong></td>
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</table>
Intentionally Created Surplus (ICS): 9 Ag Participants & City of Phoenix ('15)
MOU - CAP ICS Administrative Steps

- ADWR Approval - completed
- Approval from Nevada Contractors - in process
- Approval from California Contractors - requested
  - Presented plan in Nov ’14
  - California agencies requested delay until April
  - Requesting actions in May – June
- Approval from BOR - in discussion
Pilot System Conservation Agreement

- Conservation for System Benefit
  - Pooled funding ($11 M from CAP, MWD, SNWA, DW, BOR)
  - Basin-wide approach
    - Lower Basin
    - Upper Basin
    - Mexico
  - Conservation to protect Lake Powell and Lake Mead
Pilot System Conservation Agreement

• **Lower Basin Status**
  - BOR Request for pre-proposals in Oct ‘14
  - 17 responses
  - Concepts submitted in California, Arizona, and Nevada
  - Municipal, industrial, and ag concepts
  - Requesting proposals or refinements from 9 respondents
  - Goal to contract for projects beginning in May ‘15
Pilot System Conservation Agreement

• **Upper Basin Status**
  - Funders agreement with Upper Colorado River Commission
  - Requesting proposals from Upper Basin entities for conservation projects for Summer ‘15
  - Goal to contract for projects Summer ‘15
  - Monitoring and verification activities
  - Assess impacts to Lake Powell & other UB reservoirs