**Mission:** Improve the health and life of rivers by changing dam operations to restore and protect ecosystems, while maintaining or enhancing other project benefits

**Goal:** Advance, implement, and incorporate environmental flow strategies at Corps reservoirs

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**Reservoir Storage**

- No Corps Involvement, 49%
- Corps Involvement, 51%

- MAF = million acre feet
- 1.0 MAF = 1.3 cubic kilometers

**Reservoir Type**

- 99 MAF, Other, 28%
- 261 MAF, Corps, 72%
- 6 MAF, Big River, 31%
- 242 MAF, General, 67%

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**Environmental Flow Process**

**Advance**

- First, simulate response to experimental flood
- Then identify best hydrographs for ops

**Implement**

- Change distribution of yearly evaporation
- Change distribution of locally recruited fish

**Incorporate**

- Document and translate to many strategies
- Implementation Science Outreach Technology

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**What are “Environmental Flows”?”**

**Ecological:** The quantity, timing, and quality of water flows required to sustain freshwater and estuarine ecosystems and the human livelihoods and well-being that depend on these ecosystems (Brisbane Declaration).

**Operational:** Management decisions that manipulate water and land-water interactions to achieve ecological or environmental goals (Corps workgroup).

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**Future Directions**

**National Prioritization**

**Existing and Emerging Sites**

- Advance, implement, incorporate e-flows

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**Existing Sites**

- Bill Williams River, \( \bullet \)
- Arkansas River, \( \bullet \)
- Cumberland River, \( \bullet \)
- Ohio River Basin, \( \bullet \)
- Barren River, \( \bullet \)

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**Emerging Sites:**

- 8 rivers, 36 reservoirs

**Existing Sites:**

- 6 rivers, 22 reservoirs

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