

# SOUTHWESTERN FEDERAL HYDROPOWER MEETING



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18 June 2015



**U.S. ARMY**



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US Army Corps of Engineers  
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# ***WHITE RIVER BASIN COMPREHENSIVE STUDY***



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# WHITE RIVER BASIN, AR & MO



**LEGEND**

-  EXISTING RESERVOIR OR LAKE
-  WHITE RIVER NATIONAL WILDLIFE REFUGE
-  CACHE RIVER WILDLIFE REFUGE
-  WHITE RIVER BASIN



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# ***CURRENT STATUS***

- The Cache River Basin portion of the Watershed Management Plan will be completed in FY15.
- Next step will be a watershed assessment for the entire White River Basin and move forward in developing a Comprehensive Watershed Management Plan.



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# ***WATER SUPPLY STORAGE REALLOCATIONS***



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# ***M&I Water Supply Reallocation Studies Greers Ferry Lake***

- Current Study
  - Request from MAWA for 15.25 mgd ( $\approx$  18,870 ac-ft)
- SWL received funds to initiate study in FY14 (\$200K)
- Current Tasks
  - Finalize water demand analysis
  - Prepare necessary information for the Hydropower Analysis Center's (HAC) analysis



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# ***M&I Water Supply Reallocation Studies Beaver Lake***

- Completed Studies
  - Beaver Dam Trout Production Reallocation
    - Reallocate 21,972 ac-ft of conservation pool storage to supply water for the trout production facility and construct the facility downstream of Beaver Lake Dam. Report was prepared using O&M funds.
    - Obtained ASA(CW) approval 17 Sep 2014



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# ***M&I Water Supply Reallocation Studies Beaver Lake (continued)***

- Beaver Lake M&I Water Supply Storage Reallocation
  - Washington Regional Public Water Authority 2000 (8 mgd)
  - Carroll-Boone Water District 2001 (6 mgd)
  - Madison County Regional Water District 2006 (8 mgd)
  - Total Request 22 mgd ( $\approx$  42,000 ac-ft)
- Current tasks
  - Finalize Water Demand Analysis
  - Prepare necessary information for the Hydropower Analysis Center's (HAC) analysis



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# ***M&I Water Supply Reallocation Studies (Request) Table Rock Lake***

- Tri-State Water Resource Coalition 2007  
Roughly 35 mgd (50,000 AF)
  - Currently we in Phase III of the Southwest Missouri Water Resource Study.
    - Primary Goal: Study Water Distribution/Treatment capabilities and planning level projections of future water infrastructure needs.
  - Completed Phase I/II Water demand/Water Supply Availability



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# ***M&I Water Supply Reallocation Studies (Requests) Norfolk Lake***

- City of Mountain Home (5 mgd)
- Baxter County Water Association (5.8 mgd)
- Currently no funding to proceed with this study



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*Questions?*



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# *Greers **Ferry** Modified Seasonal Pool*

- Modified seasonal pool has increased by 0.6 feet due to the additional storage captured through the MAWA reallocation.



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# *Interior Least Tern*

- Biological Opinion requires the building of habitat (SWL & SWT Collaboration on MKARNS).
- Re-initiated Section 7 consultation with US Fish & Wildlife Service under the Endangered Species Act.



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# *Dissolved Oxygen Improvement Projects*

- Norfolk Downstream SDOX



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# ***Impaired Waterbody Listing 303(d)***

- ***Dardanelle, Bull Shoals,***
  - ***Norfolk, Taneycomo***



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# ***CURRENT STATUS***

- TMDL's completed for Bull Shoals and Norfolk (May 2009)
- TMDL for Dardanelle is still being developed
- TMDL for Lake Taneycomo was approved by the EPA for low dissolved oxygen on 30 December 2010



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# ***DISTRICT POSITION***

- Full understanding of the sources contributing to the low DO have not been identified.
- Options identified to address low DO issue are costly.
- Work with State agencies to consider re-evaluation of state standard or designated use of stream.



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