Review and Discussion of Surface Water Conditions and Management Strategies

Water Management Strategies

Per the Planning Framework (pages 58-59)**:**

- RBC's will propose **water management strategies** to
    1. Directly address any surface water or groundwater availability issues, or
    2. Enhance or optimize the overall water availability in a basin or aquifer
- A **surface water management strategy** is defined as ***any water management strategy proposed to eliminate a surface water shortage, reduce a surface water shortage, or generally increase surface water supply***.

Surface Water Management Strategies

	Portfolios of Strategies assessed:	Reduced or Eliminated (real) Shortages*	Relative Effectiveness of Increasing Supply** 1=Least Effective 7=Most Effective
Demand Side (mostly)	1. Existing Drought Management Plans	Eliminated	3
	2. Existing Drought Management Plans + Agriculture Water Efficiency Strategies	Eliminated	4
	3. Existing Drought Management Plans + Agriculture Water Efficiency Strategies + Municipal Water Efficiency Strategies	Eliminated	5
Supply Side	A. Conjunctive Use (20% SW Reduction) during basin low flows	Reduced	1
	B. Conjunctive Use (50% SW Reduction) during basin low flows	Eliminated	2
	C. Existing Drought Management Plans + Agriculture Water Efficiency Strategies + Municipal Water Efficiency Strategies + Conjunctive Use (20% SW Reduction) during basin low flows	Eliminated	6
	D. Existing Drought Management Plans + Agriculture Water Efficiency Strategies + Municipal Water Efficiency Strategies + Conjunctive Use (50% SW Reduction) during basin low flows	Eliminated	7

* In High Demand 2070 Scenario

** At the bottom of the basin

Water Management Strategies

Per the Planning Framework (page 59)**:**

- When evaluating current and future water availability, each RBC should take an **adaptive management approach** and **recognize the potential for changing hydrologic or socioeconomic conditions**, which may lead to new recommendations for water management. The two water demand projection scenarios [**business as usual** and **high demand**] are designed, in part, to address this potential for varying conditions in a basin. **Changing conditions on the water supply side could include the occurrence of a more severe drought during the planning process, as compared to recent historic droughts included in the simulated period of record.**

RBC Discussion and Decisions

1. **Does the RBC want to evaluate any additional surface water strategies?**
2. **Should any Surface Water Conditions be set?**

   - A Surface Water Condition would be a minimum allowable flow on a river or stream. We would reevaluate shortages, based on the established condition, and reevaluate the ability of management strategies to eliminate or reduce the shortage.

3. **Does the RBC prefer to wait to consider a Surface Water Condition until after all the groundwater modeling scenario results are available and groundwater management strategies are discussed?**
4. **Is the RBC ready to vote on the proposed low flow management strategy?**

Next Edisto RBC Meeting

Wed, March 16

Informational Topic

- Groundwater Scenario Results for Business as Usual and High Demand Scenarios - Comparison and Discussion

RBC Discussion

- Groundwater Conditions and Shortages
  - Are projected impacts unacceptable?
  - Is there a desired future condition?
- Groundwater Areas of Concern
- Groundwater Water Management Strategies