Request for contributions:

Pilot test flex accounting to encourage more water conservation in a combined Lake Powell-Lake Mead system?



David E. Rosenberg

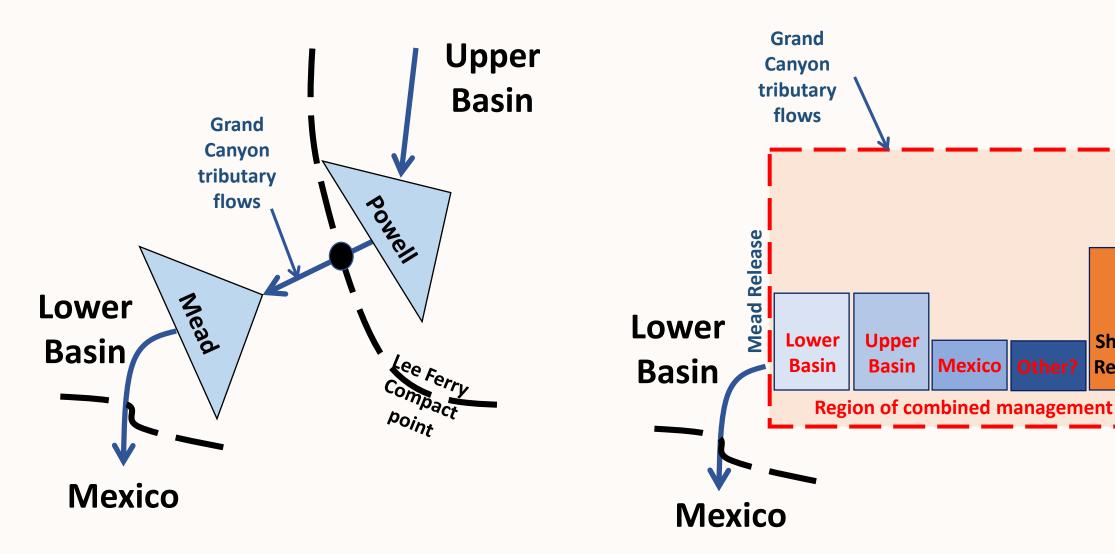
@WaterModeler

david.rosenberg@usu.edu http://Rosenberg.usu.edu

1. Give managers more flexibility to consume and conserve water independent of other parties

Adhere to prior agreements as much as possible

2. Stretch the Lee Ferry Compact Point



A. 1922 to present

B. Combined system

Upper

Basin

Natural

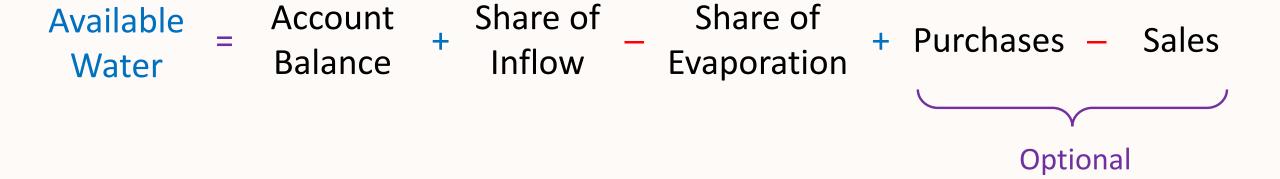
inflow to

Powell

Shared,

Reserve

3. Manage all available water not just prior conserved water



4. Will you try a pilot numerical implementation?



Download link

	A	В	С	D
20	Assumptions	Powell	Mead	
21	Evaporation rate (feet/year)	5.7	6.0	
22	Starting storage (million acre feet)	11.0	10.1	
23	Protect elevation (feet)	3,525	1,020	
24	Storage at protection elevation (maf)	5.9	5.7	
25				
26	Water Budget Component	Initialize	Year 1	Year 2
27	Natural inflow to Lake Powell			
28	Intervening (Grand Canyon) inflow			
29	Combined Storage - Beginning of Year	21.1		
30	Upper Basin Balance	5.1		
31	Lower Basin Balance	4.3		
32	Mexico Balance	0.17		
33	Mohave & Havasu Evap & ET Balance	0		
34	Shared, Reserve Balance	11.6		

END

Shared governance

Major uncertainties

- Natural flows More droughts? More wet years? A mix?
- Withdrawals How much water will managers consume or conserve (store)?

