

Potential Effectiveness of Demand-side Strategies

Example Water Conservation and Efficiency Strategies

Agricultural Portfolio of Water Efficiency Strategies

Water Audits and Nozzle Retrofits

Irrigation Scheduling

Soil Management

Crop Variety, Crop Type, and Crop Conversions

Irrigation Equipment Changes

Municipal Portfolio of Water Conservation and Efficiency Strategies						
Conservation Pricing Structures	Public Education of Water Conservation					
Toilet Rebate Program	Residential Water Audits					
Landscape Irrigation Program and Codes	Water Efficiency Standards for New Construction					
Leak Detection and Water Loss Control Program	Reclaimed Water Programs					
Car Wash Recycling Ordinances	Time-of-Day Watering Limits					
Water Waste Ordinance						

Existing Demand-Side Strategies in the Broad Basin

Agriculture

- Cover crops, intercropping, drip irrigation
- Seed coating of herbicide/insecticide to reduce irrigation
- Water audits

Energy/Industrial

 Onsite power generation – more efficient energy uses lead to reduced water demand

Public Water Supply

- Water Loss Audits/Leak detection
- Public outreach conservation, citizen academies, social media, smart irrigation,
- Conservation-based pricing structures
- Install second meter for irrigation water
 - Utility can manage irrigation separately in drought
 - Easier identification of leak sources

Existing Demand-side Strategies that Could be Expanded

- Update drought management plans
- Improve funding for agricultural conservation measures
- Review utility ordinances to ensure they have authority to restrict usage when necessary (in Catawba this was an issue)
- Regionalized public education
- Improve consistency with public messaging (potential discrepancy in conservation requirements between neighboring areas)
- Increased water audits (for PWS and Ag) and identification of funding sources to address results

What Effect to Demand Side Reductions of 10, 15 and 20 Percent Have on Reducing Projected Shortages When Applied to Public Water Supply Withdrawals?

2070 High Demand Scenario

Water User 2070 High Demand	Frequency of Shortage			Maximum Shortage (MGD)				
	10% Demand Reduction	15% Demand Reduction	20% Demand Reduction	2070 High Demand	10% Demand Reduction	15% Demand Reduction	20% Demand Reduction	
Gaffney	1.1%	1.0%	1.0%	0.8%	27.8	24.6	22.2	20.7
Spartanburg	0.4%	0.1%	0.1%	0.0%	36.9	19.8	4.8	0.0
SJWD	0.6%	0.4%	0.1%	0.0%	18.3	9.9	5.8	0.0
Greer	7.1%	5.4%	4.3%	3.4%	17.0	14.4	13.1	11.8