

APPENDIX B

WATER MANAGEMENT STRATEGIES



SC DEPARTMENT of
ENVIRONMENTAL
SERVICES



DRAFT

Appendix B. Water Management Strategies

Table B-1. Municipal demand-side management strategies recommended by the RBCs and WaterSC.

Strategy	WaterSC ¹	Upper Savannah ²	Saluda	Broad	Catawba ³	Lower Savannah-Salkehatchie	Edisto	Santee	Pee Dee ⁴
Public Education about Water Conservation	X	X (1)	X	X		X	X	X	X
Conservation Pricing Structures	X	X (2)	X	X		X	X	X	X
Leak Detection and Water Loss Control, including AMI/AMR	X	X (2)	X	X	X	X	X	X	X
Recycled Water Programs	X	X	X	X		X	X	X	X
Update Drought Management Plans		X	X	X		X		X	X
Landscape Irrigation Program and Codes		X	X	X		X	X	X	X
Time-of-day Watering Limit		X	X	X		X	X	X	X
Residential Water Audits	X	X	X	X			X	X	
Water Efficiency Standards for New Construction		X		X			X		X
Incentives for Low Flow Fixtures	X						X		X
Car Wash Recycling Ordinances				X			X		
Water Waste Ordinance						X	X		

¹ WaterSC also recommended smart meters, low impact development (LID), strengthened building codes, separate meters for irrigation, drought management strategies, and tourism impact tax.

² The Upper Savannah RBC prioritized strategies as first priority, second priority, or remaining toolbox of strategies.

³ Catawba strategies are from the CWWMG 2014 Water Supply Master Plan.

⁴ The Pee Dee RBC ranked strategies across municipal, agricultural, and industrial strategies using three different approaches. Only those strategies ranked are included in this table. See the Pee Dee River Basin Plan for more details.



Table B-2. Irrigation (agriculture and golf courses) demand-side management strategies recommended by the RBCs and WaterSC.

Strategy	WaterSC ¹	Upper Savannah	Saluda	Broad	Catawba	Lower Savannah-Salkehatchie	Edisto ²	Santee	Pee Dee ³
Water Audits and Nozzle Retrofits	X	X	X	X		X	X (1)	X	X
Irrigation Scheduling/ Smart Irrigation Systems/Moisture Sensors		X	X	X		X	X (4)	X	X
Irrigation Equipment Changes		X	X	X		X	X (2)	X	X ⁴
Crop Variety, Crop Type, and Crop Conversion		X	X	X		X	X (5)	X	X
Soil Management (Cover Cropping, Conservation Tillage)	X	X	X	X		X	X (3)	X	X
Recycled Water Programs						X			
Wetting Agents (golf courses)						X		X	
Future Technologies			X			X	X	X	

¹ WaterSC also recommended prescribed burns, BMPs for water quality, and more coordination on research with academia and industry.

² The Edisto RBC prioritized agricultural strategies (as shown in parentheses, with 1 being highest priority) to reflect what may be preferred under typical conditions. The RBC recognized that the most appropriate strategy for a given agricultural operation will depend on the size of the operation, crops grown, current irrigation practices, and financial resources of the owner/farmer.

³ The Pee Dee RBC ranked strategies across municipal, agricultural/irrigation, and industrial strategies using three different approaches. Only those strategies ranked are included in this table. See the Pee Dee River Basin Plan for more details.

⁴ The Pee Dee RBC recommended drop/trickle irrigation explicitly.

Table B-3. Industrial demand-side management recommended by the RBCs² and WaterSC.

Strategy	WaterSC ²	Upper Savannah	Catawba	Lower Savannah-Salkehatchie	Santee	Pee Dee ³
Educating Employees About Water Conservation		X		X	X	
Water Reuse and Recycling	X	X		X	X	X
Water Audits		X		X	X	
Water Saving Equipment and Efficient Water Systems/Processes	X	X		X	X	X
Rebates on Energy-Efficient Appliances		X		X	X	
Water Saving Fixtures and Toilets		X		X	X	
Water Loss Control and Routine Maintenance						X
Drought Management Best Practice Collaboration						X
Switch to combined-cycle natural gas						X

¹ The Edisto, Broad, and Saluda RBCs did not explicitly discuss industrial demand-side management strategies.

² WaterSC also recommended closed-loop cooling, conjunctive use, process optimization, air cooled condensers, natural gas (rather than coal), and renewable energy.

³ The Pee Dee RBC ranked strategies across municipal, agricultural, and industrial strategies using three different approaches. Only those strategies ranked are included in this table. See the Pee Dee River Basin Plan for more details.