

SUPPLY MANAGEMENT

COA Water Management Strategy Description		STRATEGY YIELD (AC-FT/YEAR)		WATER SUPPLY PROJECT EVALUATION CRITERIA																			
				Water Supply Benefit					Economic Impacts			Environmental Impacts			Social Impacts		Implementability			Risk of Alternative Supplies		Final	Comments
				25%	20%	20%	10%	15%	10%	100%													
Augmentation of Supplies - (Supply Management) System Operational Improvements (Existing Supplies)				Supply Volume	Unit Cost* (\$/Acre-Ft)	Treatment Need/Cost	Impacts on Other Water Supplies	Imagine Austin Plan	Required External Adoption	Dependence on Climatic Conditions (Variability of Yield)													
Longhorn Dam Gate Operation	2,000 - 4,000		\$8				Balances Economic and Environmental Impacts with Community Interests	Land Acquisition	Hydrologic Storage- Potential Environmental Release														
Reduced Lake Evaporation	800 - 1,200		\$275				Recreation	Timing of Implementation															
Walter Long (Decker) Lake Off-Channel Storage	1,000 - 4,000		\$64				Regulatory Approval	Public Acceptance															
SAR Discharge Relocation above Austin Gauge	0 - 1,000		\$114				Political Opposition	Legal Uncertainties															
Lake Austin Varying Operating Level	0 - 5,000		\$10				Public Acceptance																
<i>Enhanced Operations (Additional Capital Req'd)</i>																							
Automate Longhorn Gates	4,000 - 7,000		\$15																				
Walter Long (Decker) Lake Off-Channel Storage (enhanced storage)	8,000 - 20,000		\$183																				
Capture Local Inflows to Lady Bird Lake	1,000 - 3,000		\$334																				
Aquifer Storage & Recovery ^{C*}	4,000 - 4,000		\$1,000																				
Aquifer Storage & Recovery (Regional Non-Edwards Aquifer)																							
Indirect Potable Reuse - SAR to Lady Bird Lake ^{A*}	20,000 - 20,000		\$190																				
Barton Springs Capture & Augmentation	-																						
New Groundwater Supplies																							
Blue Water Systems ^{B*} (Treat & Deliver)	12,000 - 12,000		\$1,526																				
Forestar ^{B*}	10,000 - 10,000		???																				
Northern Edwards Wellfield ^{B*}	1,000 - 1,500		\$431																				
Vista Ridge ^{B*}	50,000 - 50,000		???																				
Hays-Caldwell Public Utility Authority ^{B*}	25,000 - 25,000		???																				
Trinity Aquifer supplies	-																						
Other																							
Brackish desalination ^{B*, C*}	5,000 - 10,000		\$1,733																				
Reclaimed water bank infiltration	20,000 - 40,000		\$667																				
Colorado Bed and Banks ^{B*}	40,000 - 70,000		\$691																				
Rainwater harvesting	-																						
Commercial	-																						
Residential	-																						
ASR- Regional/Desalination	-																						

Notes:

* Unit Cost Supply Basis of \$/Acre-Ft at 95th percentile, based on AWU midpoint quantity within range.

A* - Yield and unit cost calculation assumes extremely reduced downstream environmental flow requirements.

B* - These alternatives represent a treated water supply and would not incur the water treatment costs the other alternatives would require.

C* - This alternative is specific to evaluation within the Edwards Aquifer, and would be different when evaluating a different site/aquifer.