Cost Estimate Summary
Water Supply Project Option
September 2018 Prices
Wichita Falls - Lake Ringgold

Cost based on ENR CCI 11170.28 for September 2018 and a PPI of 201.9 for September 2018

Item	***Estimated Costs for Facilities***
CAPITAL COST	
Dam and Reservoir (Conservation Pool acft, 17280 acres)	$72,731,000
Transmission Pipeline (48 in dia., 29.7 miles)	$59,057,000
Intake Pump Stations (43 MGD)	$40,481,000
Transmission Pump Station(s) & Storage Tank(s)	$0
Pipeline Crossings	$16,372,000
Integration, Relocations, & Other	$7,911,000
TOTAL COST OF FACILITIES	**$196,552,000**
Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes & 35% for all other facilities)	$65,022,000
Environmental & Archaeology Studies and Mitigation	$86,683,000
Land Acquisition and Surveying (17486 acres)	$41,076,000
Interest During Construction (3% for 5 years with a 0.5% ROI)	$53,534,000
TOTAL COST OF PROJECT	**$442,867,000**
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	$13,175,000
Reservoir Debt Service (3.5 percent, 40 years)	$11,970,000
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	$833,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	$1,012,000
Dam and Reservoir (1.5% of Cost of Facilities)	$1,091,000
Water Treatment Plant	$5,269,000
Pumping Energy Costs (9866677 kW-hr @ 0.08 $/kW-hr)	$789,000
TOTAL ANNUAL COST	**$34,139,000**
Available Project Yield (acft/yr)	23,450
Annual Cost of Water ($ per acft), based on PF=2	$1,456
Annual Cost of Water After Debt Service ($ per acft), based on PF=2	$384
Annual Cost of Water ($ per 1,000 gallons), based on PF=2	$4.47
Annual Cost of Water After Debt Service ($ per 1,000 gallons), based on PF=2	$1.18
Note: One or more cost element has been calculated externally	

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