

Sustainable Management of Water Resources in The Upper Euphrates Basin-Iraq

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The research aims evaluate the water consumption and future demand by using the WEAP program. Five scenarios have been adopted, which is the reference scenario that showed the results of increase in water demand from (100) million cubic meters in 2015 to (397) MCM in 2035 with a water deficit in 2035 to (38) MCM. Modern irrigation methods reduce the water deficit from (38-2.9) MCM. While the use of underground water reduced the deficit from (38- 26) MCM. As for the wastewater reuse scenario, the deficit decreased from (38-35) MCM. Reducing the per capita share did not reduce the water deficit.