

Water Resources Data for Nile Basin

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ABSTRACT: The historical water resources data from Nile Basin countries have been assembled into a single database in a bid to come up with a tool for multi objective water resources allocation decision-making. The Lake Victoria Decision Support System (DSS) and later the Nile Decision Support Tool (DST) are used to demonstrate the available opportunities for the development of socio-economic activities in the Nile Basin that includes domestic water supply, agriculture, and hydropower. Different scenarios of water development and management are examined to demonstrate sustainable use of water resources in the basin. The scenarios include a combination of the current situation and full development options in the Eastern Nile (Ethiopia and Sudan), full development in the Equatorial lakes and basin-wide cooperation. Agricultural crop yield performance options and water needs are explored for the Lake Victoria region.

It is concluded that a common or shared database brings a better understanding of water resources issues in the basin, enables sharing of vision for development and thus enhances good relations among member states.