Publications

TR-408

Eagle Mountain Watershed: Calibration, Validation, and Best Management

T. Lee, B. Narasimhan, R. Srinivasan

- Full Text

The watershed modeling objective of this project was to use the Soil and Water Assessment Tool (SWAT) to assess the effects of urbanization and other landuse changes on sediment and nutrient delivery to Eagle Mountain Lake. The watershed is located on the West Fork of the Trinity River primarily in Wise County but also partially in Jack, Clay, Montague Parker and Tarrant counties. Eagle Mountain Lake was constructed in 1932 as a water supply reservoir for Tarrant County (Figure 1); the reservoir has a total drainage area of 2,230 km (551,045 acres). All model data in this report, both observed and simulated, includes inflow to Eagle Mountain watershed from Bridgeport Reservoir, also constructed in 1932 (Figure 1). Daily inputs, such as flow, sediment, and nutrients, from Bridgeport Reservoir were represented as a point source in the Eagle Mountain watershed model.

Texas Water Resources Institute

1500 Research Parkway A110
2260 TAMU
College Station, TX 77843-2260

Phone:
979.845.1851
Fax: 979.845.0662
Email:
twri@tamu.edu

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