



Use of Water Quality Models

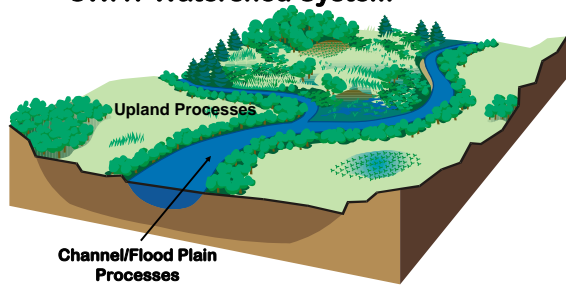


Watershed Modeling: SWAT

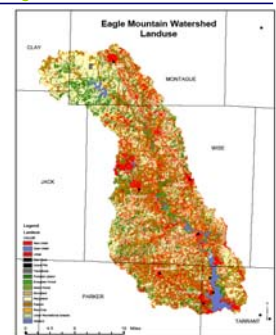
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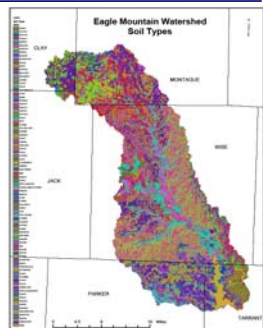
SWAT Watershed System



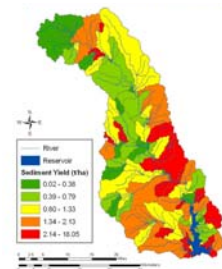
Eagle Mountain Watershed Landuse Classification



Eagle Mountain Watershed Soils Classification



Eagle Mountain Sediment Yields due to Overland Erosion



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**Reservoir Modeling:
WASP**

Mark Ernst
Environmental Manager
Tarrant Regional Water District

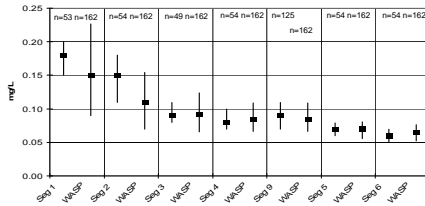
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WASP Model

- An EPA developed and supported model
- The WASP Model has been used to provide a quantitative understanding of the nutrient balance for our reservoirs and to assess reservoir responses to external and internal nutrient load reductions.

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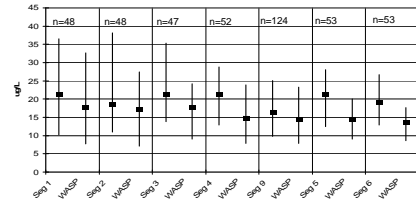
**Cedar Creek WASP Modeling Results
TP (1991-2001)**



Description: n represents the number of observed data points used for comparison to monthly WASP predicted results.

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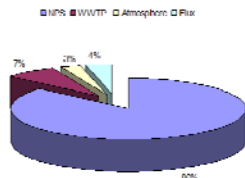
**Cedar Creek WASP Modeling Results
Chl'a' (1991-2001)**



Description: n represents the number of observed data points used for comparison to monthly WASP predicted results.

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**Cedar Creek WASP Model Nutrient
Budget – TP (1991-2001)**



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Eagle Mountain Lake Hydrology (1980-2005)

