NORTHEAST REGIONAL CONSERVATION NEED GRANT QUARTERLY REPORT

Grant Number: 2007-06

Grant Title: An interactive, GIS-based application to estimate continuous, unimpacted daily streamflow at ungaged locations in the Connecticut River Basin

Grant Receipt: U.S. Geological Survey

Grant Contact Name: Stacey A. Archfield

Report #- 3

Were planned goals/objectives achieved last quarter? Yes.

Regional Conservation Need Addressed: Priority RCN Topic 3: Development of Instream Flow Standards, Guidelines, and Policies

Progress Achieved: (For each Goal/Objective, list Planned and Actual Accomplishments)
Project Objectives: Develop an interactive point-and-click GIS application to estimate continuous, daily unimpacted streamflow at any ungaged location in the Connecticut River basin.

Planned Accomplishments	Actual Accomplishments
-> Identify streamflow gages in the northern portion of Connecticut River basin that will be incorporated into the existing regression equations -> Gather streamflow data for identified gages -> Continue to collect basin-wide GIS data layers for regression-equation refinement	-> An additional 24 streamflow gages were identified in the northern portion of the Connecticut River Basin and streamflow data were collected for these gages -> Continued collection of basin-wide GIS data layers for regression-equation refinement

Difficulties Encountered: None

Activities Anticipated Next Quarter:

- Continue to collect basin-wide GIS data layers for regression-equation refinement.
- Compute flow statistics for the additional 24 streamflow gages in the northern portion of the Connecticut River Basin.
- Where needed, extend the streamflow records of the 24 additional streamflow gages to cover the period from October 1, 1960 through September 30, 2004.
- Create spatial models of the correlation between the daily time series of streamflow at each of the 24 additional gages

Costs:

Are you within the approved budget plan? Yes.
Are you within approved budget categories? Yes.

Signature:
Date: 07/30/09