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 #- 5

Were planned goals/objectives achieved last quarter? No. The collection of the basin-wide GIS data layers is taking longer than anticipated, although this should not affect the project budget or timeline. For this reason, the regression refinement and final spatial models of correlation cannot be completed until the next quarter.

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
-> Complete collection of basin-wide GIS data layers for regression-equation refinement. -> Complete spatial models of the correlation between the daily time series of streamflow -> Refine regression equations for the northern portion of the Connecticut River Basin	-> Continued collection of basin-wide GIS data layers for regression-equation refinement -> Continued developing spatial models of correlation to include the 24 additional gages.

Difficulties Encountered: The collection of the basin-wide GIS data layers is taking longer than anticipated, although this should not affect the project budget or timeline.

Activities Anticipated Next Quarter:

- Complete collection of basin-wide GIS data layers for regression-equation refinement.
- Complete spatial models of the correlation between the daily time series of streamflow
- Refine regression equations for the northern portion of the Connecticut River Basin

Costs:

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

Signature:
Date: 01/05/10