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This is the second issue of the monthly technical bulletin for the St. Joseph River Watershed Management Planning Project.

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## Task 1 Background Information Collection

The [bibliography](#) has grown to include 265 entries based on suggested additions by Steering Committee members. The bibliography may be downloaded as an Excel file from the website. A [GIS applet program](#) which allows viewers to display and identify various spatial data in an interactive format has been added to the website.

## Task 2 Drainage Basin Characterization

[Digital Elevation Modeling](#) using 30-meter resolution elevation data is being conducted. Maps illustrating the [designated trout streams in Michigan](#) and the [Indiana Hydrogeological Settings](#) have been created. An "[About the Watershed](#)" link on the homepage of the project website has been added to allow quick access to all maps created for the project.

## Task 3 Identification of Critical Areas

Nonpoint source modeling using annual average precipitation and land cover type in each subwatershed to calculate runoff volumes has been conducted. Estimated mean concentrations for each land cover type were multiplied by the runoff volumes to determine an expected annual load of total suspended solids and total phosphorus from each subwatershed. The model was calibrated to published USGS loading data (Robertson, 1997) and permitted point source discharges to the watershed. [Maps](#) illustrating the average annual expected "load per acre" from each subwatershed have been created. We have also developed a stream bank erosion form which will lead to the institutionalization of the [road-stream crossing inventory](#).

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### What's Next?

Continued nonpoint source modeling and subwatershed delineation is being conducted with the U.S. EPA BASINS program. The [Water Quality Summary](#) has been drafted based on published data regarding impairments within the Watershed. It will be finalized with the Designated Use Tables being developed by this project.

### What's Needed?

Steering Committee input is needed to help us find additional sources of information and to identify impairments within the Watershed. Where are designated uses being met? A [discussion board](#) has been developed for the website. You can provide information there or contact us directly at [nott@kieser-associates.com](mailto:nott@kieser-associates.com).