

## **Wisconsin DNR Field Station 2006 Products List**

### **Publications Progress Report**

H.A. Langrehr is currently consolidating and finalizing author/coauthor replies to peer-reviewer comments for the journal submission that resulted from a 2006 MSP analysis project. Title: "Evaluation of Aquatic Vegetation Community Response to Island Construction in the Upper Mississippi River". Journal: *Lake and Reservoir Management*.

### **2006 Completed Reports**

Bartels, A., M. C. Bowler, S. DeLain, **E. J. Gittinger**, D. P. Herzog, K. S. Irons, K. Mael, T. M. O'Hara, **E. Ratcliff**, and J. Ridings. 2006. 2004 Annual Status Report: A summary of fish data in six reaches of the Upper Mississippi River System. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin. Web-based report LTRMP 2006-W002 available online at [http://www.umesc.usgs.gov/report\\_publications/ltrmp/fish/2004/fish-srs.html](http://www.umesc.usgs.gov/report_publications/ltrmp/fish/2004/fish-srs.html) (Accessed June 2006, revised July 2006.)

Yin, Y., H. Langrehr, T. Shay, T. Cook, **R. Cosgriff**, and M. Moore. 2006. Vegetation sampling in the Upper Mississippi River System: Annual update. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin. An LTRMP Web-based report available online at [http://www.umesc.usgs.gov/reports\\_publications/ltrmp/vegetation.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/vegetation.html) . (Revised and accessed May 2006, with 2005 data.)

### **Product Completion Reports Currently in Review**

Matt O'Hara, Brian S. Ickes, Eric Gittinger, Steve DeLain, Terry Dukerschein, Mark Pegg, and John Kalas' Development of a life history database for Upper Mississippi River fishes.

Andy Bartels, Jeff Janvrin. Evidence of Migration to upper Mississippi Backwaters in Late Fall.

Andy Bartels, Terry Dukerschien, and Brian Ickes. Exploratory Analysis of Index of Biotic Integrity Scores Calculated from Datasets Obtained from Three Different Day Electrofishing protocols.

### **2006 LTRMP Supported Presentations**

Sullivan, J., J. Houser, and J. Fischer, coauthored a presentation about filamentous green algae and nutrient dynamics in backwaters of the upper Mississippi River for the Nutrients Conference taking place in St. Louis, MO on October 4 and 5, 2005.

Langrehr H. A. and J. T. Dukerschein. Changes in Aquatic Vegetation Between 1975, 1991, and 2004 near Stoddard, WI, Pool 8, Upper Mississippi River System. Poster presented at the International Conference on Large Rivers and Civilization June 26 and 27, 2006 at La Crosse, WI.

Bartels A. D., J. T. Dukerschien, and Brian Ickes. Exploratory Analysis of Index of Biotic Integrity Scores Calculated from Datasets Obtained from Three Different Day Electrofishing protocols. Poster presented at the International Conference on Large Rivers and Civilization June 26 and 27, 2006 at La Crosse, WI.

(Several other presentations supported by EMAP-GRE also occurred.)

### **2006 Research Support**

Terry Dukerschein, Walt Popp and other Field station staff from the Minnesota and Wisconsin DNR field stations developed a successful 4-year funding proposal to USEPA which will draw on both EMAP and LTRM data to develop indicators, reference condition, and biocriteria for Great Rivers and to support required Clean Water Act Reporting. The time for developing this proposal was entirely supported by USEPA, however, however, the scope of work products will enhance future LTRMP efforts and work in conjunction with them.

With John Sullivan and others, Terry Dukerschein co-authored a Statewide Mississippi River Monitoring Strategy to be used to guide Wisconsin DNR's monitoring efforts on the Mississippi River now and in the future. The LTRMP monitoring is an important part of the strategy.

Langrehr, H. R. Provided a place on our vegetation boat for an Intern so that samples for *Bithnia* snail study could be concurrently with LTRMP Vegetation SRS samples. This saved money on equipment, transportation and personnel—the sampling was completed very economically as a result. (IA DNR did the same thing in Pool 13).

Hoff, K. L. trained USGS staff to calibrate and operate hydrolabs for their work on the backwater chlorophyll production APE Study and also helped sample for this study.

Heidi Langrehr provided LTRM data and maps to various DNR colleagues on multiple occasions to support the work of DNR's Bureau of Watershed Management.

### **2006 LTRMP Data Management Support**

Bartels, A.D. worked with USGS/UMESC staff to refine the fisheries online tool for graphical data browsing so that fish length group data could be graphed.

Fischer, J. R. and K. Hoff made significant contributions to the **Online Tool: [Water Quality Graphical Browser](#)** developed in cooperation with USGS Staff.

K. Hoff assisted USGS staff with updating the Scanlog program, which interfaces for laboratory sample tracking and laboratory results with the LTRMP Water Quality Database.

QA/QC of all 2005 data completed.

### **2006 Outreach Highlights**

Dukerschein, J. T., Bartels, A. D., Langrehr, H. A., Mael, K. S., Hoff, K. planned, contributed LTRMP products, and staffed a large 3-day EMP 20<sup>th</sup> Anniversary exhibit at the International Conference on Large Rivers and Civilization June 25-29 at La Crosse, WI. Both INHS field stations, the MDOC field station, and the the IADNA field station provided examples of their work for this exhibit as well.

Dukerschein, J. T., Bartels, A. D., Langrehr, H. A., Mael, K. S., Hoff, K. planned, contributed LTRMP products, and staffed a monitoring demonstration for the EMP 20<sup>th</sup> Anniversary celebration at the International Conference on Large Rivers and Civilization June 25-29 at La Crosse, WI. MN DNR and IA DNR also contributed staffing and equipment for this tour. Weather prevented the full tour but handouts and information were distributed to appreciative science and agency personnel who attended.

Bartels, A. D., K. Mael, E. Sonnentag planned and conducted successful electrofishing demonstration for 20<sup>th</sup> anniversary EMP Celebration August 23, 2006, La Crosse, WI.

Dukerschein, J. T., K. Hoff, A. Witt planned for and provided staffing for LTRM and agency exhibits at the 2006 USGS Open House Sept. 9, 2006 in La Crosse, WI.

Hoff, K. L., E. Cummings, and H.A. Langrehr planned and taught modules on sampling water quality and sampling aquatic vegetation for Environmental Explorers, a cooperative summer school program for middle school students led by USGS and UW-La Crosse. June, 2006.