

**Long Term Resource Monitoring Program (LTRMP) FY06  
Additional Program Element Proposals**

<b>List of all proposals submitted</b>	<b>Proposals sent for review</b>	<b>Funded</b>
Cross-walk analysis and detailed change analysis--How well do past classification systems crosswalk to current classification systems		
Orthophoto mosaics of 1920-1930s historic aerial photography of the Upper Mississippi River System		
Georeferenced map mosaics of the early 1900s Woermann and Brown Surveys		
LIDAR-derived elevation pilot study for the Foley Quad, Pool 25		
High-resolution LIDAR derived elevation pilot study for the Rockwood and Wilkinsin Islands Complex		
Trend pool orthophoto mosaics using the 2000 1:24000-scale color infrared aerial photos		
A systemic land cover/land use change analysis of Habitat Rehabilitation and Enhancement Project sites for years 1975, 1989, and 2000		
Development of two-dimensional numerical hydraulic models for Mississippi River Pool 13 and Illinois river La Grange Pool in support of the LTRMP	<b>X</b>	
2003 aerial photo mosaic and land cover/land use automation of Pool 4		
2003 aerial photo mosaic and land cover/land use automation of Pool 13		
Testing for a relationship between LTRMP catch-per-unit effort data and fish abundance (number/biomass per unit area) estimates from block nets	<b>X</b>	
Dispersal patterns of fish from known overwintering locations in Pool 8 of the Upper Mississippi River		
Model chlorophyll a and suspended solids levels in backwater lakes of the UMRS. Part II: Importance of backwater lakes, backwater lake co-variate associations, and long-term trends in backwater	<b>X</b>	
Assessing trends in water temperatures using LTRMP water quality data: an example of complex statistical models for complex data	<b>X</b>	
Vegetation, primary production, and dissolved oxygen dynamics in Upper Mississippi River System backwater lakes	<b>X</b>	
Floodplain lake restoration at the Nature Conservancy's Emiquon property: establishing a baseline		
Investigate effects of newly completed Habitat Rehabilitation and Enhancement Projects (HREP) (Chatauqua, Banner Marsh) in La Grange Pool on fish production, including larval fishes, using LTRMP and HREP data	<b>X</b>	
Seasonal use of tributaries by riverine fishes		
Resource assessment of the Upper Illinois River		
Over-winter fish community structure		
Structural and Functional Indicators of Bottomland Hardwood Forests within the Upper Mississippi River Ecosystem	<b>X</b>	
Quantitative evaluation of drawdown and Habitat Rehabilitation and Enhancement Projects as management tools	<b>X</b>	

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Combining Invertebrate data collected in the Upper Mississippi River based on LTRMP sampling procedures used by various agencies in spring and fall and estimating abundances for mayflies and fingernail clams		
Dynamics of temperature, dissolved oxygen, and velocity gradients under ice in two contiguous backwaters in Pool 8, Upper Mississippi River		
A literature review of the role of aquatic vegetation in invertebrate and fish production and diversity with recommendations for <u>restoration and research on the Upper Mississippi River System</u>		
LTRMP water quality graphical browser for fixed sampling sites for Pool 4, Pool 26, and La Grange Pool		
LTRMP water quality graphical browser for stratified random sampling sites	<b>X</b>	
Can standard LTRMP fisheries protocols detect differences in fish community metrics in a unique area influenced by a large tributary		
Next generation forest on the Upper Mississippi River floodplain	<b>X</b>	
Aquatic vegetation and water quality response to a second year of water level drawdown in Navigation Pool 5 of the Upper Mississippi River	<b>X</b>	
Restoration of full vegetation monitoring in Pools 4, 8, and 13		
Inventory and interpool species richness evaluation of main channel border fishes in Pools 9-19 of the Upper Mississippi River	<b>X</b>	
Competitive interactions among and between early life stages of Asian Carps and native fishes in the Upper Mississippi River : an <u>experimental test under controlled conditions</u>		
Controls on abundance and size structure of centrarchids and diversity of fishes in off-channel areas in the UMR: aquatic vegetation and seasonal refuge	<b>X</b>	
Identification of centrarchid overwintering habitat availability in selected backwater areas of Mississippi River Pool 18		
Proposal for numerical modeling of Peoria Pool under 1903 hydrologic conditions		
Update LTRMP Fish Graphical Browser		
Importance of the Upper Mississippi River Forest Corridor to <u>Neotropical Migratory Birds</u>	<b>X</b>	
Bathymetry		
On-line tools and data workshop		
LTRMP field equipment refreshment		
LTRMP Status and Trends Report		