

## LTRMP Milestones

FY 2001, Fourth Quarter

Milestone	Target date in SOW	Alloc.	Current Status	1st quarter	2nd quarter	3rd quarter	4th quarter
<b>MONITORING AND ANALYSIS</b>							
<b>Aquatic Vegetation Component</b>		832.9					
Complete year 2000 aquatic vegetation data quality checking and entry into the LTRMP database.	29-Dec-2000		Completed	Completed			
Complete statistical analyses of 2000 aquatic vegetation data.	30-Mar-2001				Completed		
Complete Draft YR2000 aquatic vegetation monitoring section of LTRMP YR2000 monitoring summary report.	30-Apr-2001					Completed	
Complete Final YR2000 aquatic vegetation monitoring section of LTRMP YR2000 monitoring summary report.	30-May-2001				Completed	Completed	
Complete SAV stratified random sampling.	31-Jul-2001						Completed
Complete adding annual increment to database of river discharge and elevation.	30-Sep-2001						Completed
<b>Fisheries Component</b>		1421.1					
Complete the third FY 2000 fish sampling effort (September 16 - October 31, 2000)	01-Nov-2000		Completed	Completed			
Complete 2000 fish data quality checking and entry into the LTRMP database.	01-Feb-2001		In Progress	75% complete	98% complete	Completed	
Complete summary statistics and statistical analyses of 2000 fish data.	31-Mar-2001				Completed		
Decision date to determine fisheries sampling protocol for FY01.	March 2001		On schedule		On schedule	On schedule	On schedule
Complete Draft FY2000 fish monitoring section of LTRMP 2000 monitoring summary report.	30-May-2001		On schedule		50% complete	75% complete, awaiting final format template for web serving	1st Draft on web: <a href="http://www.umesc.usgs.gov/reports_publications/ltrmp/fish.html">http://www.umesc.usgs.gov/reports_publications/ltrmp/fish.html</a> should be in review process by Mid October
Complete the first fish-sampling effort for FY01.	31-Jul-2001					On schedule, high water is hindering some collection efforts	Completed
Complete the second fish-sampling effort for FY01.	15-Sep-2001						Completed
<b>Macroinvertebrate Component</b>		217.6					
Complete year 2000 macroinvertebrate data quality checking, calculate summary statistics, enter data into LTRMP database.	31-Jan-2001		Completed	Completed	Completed: <a href="http://www.umesc.usgs.gov/reports_publications/ltrmp/macro.html">http://www.umesc.usgs.gov/reports_publications/ltrmp/macro.html</a>		
Complete statistical analyses of 2000 macroinvertebrate data.	31-Mar-2001		Completed	80% complete	Completed		
Complete draft 2000 macroinvertebrate annual status report and monitoring section of LTRMP 2000 monitoring summary report.	30-Apr-2001		Completed	50% complete		Completed	
Complete macroinvertebrate sampling efforts in each LTRMP study area.	31-Jul-2001		Completed				Completed

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<b>Water Quality Component</b>		1639.4					
Complete fall stratified random sampling episode at each of the six LTRMP field stations.	22-Oct-2000		Completed On Schedule	Completed			
Complete year of 2000 water quality sampling at 2-week intervals.	31-Dec-2000		Completed On Schedule	Completed			
Complete winter stratified random sampling episode at each of the six LTRMP field stations.	15-Feb-2001		Planning & Prep. Underway		Completed		
Complete error checking of 2000 water quality laboratory analyses.	31-Mar-2001				Completed		
Complete year 2000 water quality field data checking and entry to LTRMP database for fixed site sampling and SRS.	30-Apr-2001					Completed	
Complete spring stratified random sampling episode at each of the six LTRMP field stations.	15-May-2001					Completed	
Complete transfer of year 2000 analytical data from laboratory database to LTRMP database.	30-May-2001					Completed	
Complete YR2000 water quality section of the YR2000 LTRMP monitoring summary report.	30-Jun-2001					Submitted to BLJ 1 Oct 2001	
Complete summer stratified random sampling episode at each of the LTRMP field stations.	15-Aug-2001						Completed on Schedule
Complete the LTRMP water quality Procedures Manual.	28-Sep-2001		Final revisions in progress				Final review comments and changes from LTRMP Field Stations received/discussed at annual meeting (September 24-27, 2001). Inputs to be incorporated and draft to be submitted for USGS review by Oct 15, 2001.
Publish six data reports presenting detailed water-quality data for each of the six study areas during the years 1997-1999, on the UMESC web site.	28-Sep-2001						Reprogramming underway for Web-based publication, years 1997-2000 to be included. Anticipate completion and publication by end of 1st quarter FY 02.
<b>Annual LTRMP Monitoring Summary Report</b>		86.1					
Final Report complete, distributed.	30-Sep-2001						FY2000 report 50% complete. Web-based format will be modified from FY1999 report and completed by 1st quarter of FY2002

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<b>Fishery Resources of Deep Channels of the UMRS</b>		136					
Evaluate the relative merits and efficacy of forward-scanning sonar, videography, and flume studies for estimation of the fraction of fish that escape capture by the trawl per Objective 1. Conduct a literature search and report findings in a quarterly progress report.	31-May-2001		In progress	10% complete	20% complete	Completed	
Evaluate alternatives for probability-based sampling designs for system-wide trawl surveys and report recommendations. Design study of comparison of matched segments of navigation channel, secondary channel, and main channel border to assess potential consequences of chronic disturbance. Report findings in a progress report.	29-Jun-2001		In progress	10% complete	40% complete	Completed	
<b>Statistical Evaluation of Monitoring Data</b>		100					
Status report of the types of analyses and likely applications for various LTRMP components.	03-Mar-2001				Completed		
Draft annual progress report of accomplishments, findings, and interpretations, including recommendations concerning the LTRMP sampling framework.	28-Sep-2001						As per memo to EMPCC from L. Holland Bartels, reports will be posted to the web as they become available. Due dates for individual products will be met.
<b>Bathymetric Mapping for HREP Projects and Analytical Support for HREP Projects and Pool-wide Planning.</b>		300					
Complete prioritization of HREP bathymetry support.	29-Dec-2000		Completed	In progress, awaiting input from USACE districts (30% complete)	Completed, but will alter in response to urgent needs of EMP partners		
Complete strategic plan for collection and compilation of systemic bathymetry.	26-Jan-2001		Completed	In progress, details completed upon selection of contractor (50% complete)	Plans for FY2001 pool-wide mapping are complete. Contract should be awarded before April, 2001.		
Initiate bathymetry acquisition in support of HREP.	01-Apr-2001				Survey set-ups completed for HREP survey sites.	Surveys conducted in Pools 4, 8, 11, and 12.	
Complete bathymetric surveys that were requested.	31-Aug-2001						Completed surveys and post processing
Complete update of the UMESC bathymetry web pages.	29-Sep-2001		In progress	In progress, data assembled for metadata			Will be updated upon completion of contracted surveys

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<b>APPLIED RESEARCH: LANDSCAPE &amp; HABITAT ANALYSES</b>							
<b>Year 2000 Land Cover/Land Use and Aquatic Areas GIS Database</b>		216					
Complete georeferenced photo mosaics of LTRMP key pools.	28-Feb-2001		In progress	90% complete	Completed		
Complete 2000 databases for UMR Pool 8 and La Grange Pool.	31-Mar-2001		In progress	40% complete	95% Complete	Completed	
Complete 2000 databases for UMR Pool 26 and southern Open River.	30-Jun-2001		In progress	20% complete	20% Complete	99% Completed	Complete, delivered to Web Team
Complete 2000 databases for UMR Pools 4 and 13.	31-Aug-2001					30% Completed	Complete, delivered to Web Team
<b>Investigation of Remote Sensing Technology for Land Cover Acquisition</b>							
Literature review and study area interpretation will be completed.	31-Jan-2001		In progress	95% complete	Completed		
The comparison and assessment of the IKONOS satellite imagery will be completed.	31-May-2001		In progress		10% complete	80% complete (Delayed by 2001 Flood). PI and image classification complete. Accuracy assessment and report in progress.	Completed
Project status report on the IKONOS classification.	30-Jun-2001					Will be completed one month after assessment.	In Review
Acquisition of AISA hyperspectral imagery.	30-Sep-2001						Completed
The comparison and assessment of the AISA hyperspectral imagery.	31-Dec-2001						Approved contract with ESE moved date to 2002-03-15
Project status report on the AISA classification.	31-Jan-2002						Recommend combine with IKONOS PSR
Final Report with recommendations.	28-Feb-2002						Recommend move to 2002-05-15 based on new contract date with ESE

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<b>APPLIED RESEARCH: INTEGRATED ANALYSIS</b>							
<b>Numerical and statistical Modeling of Aquatic Plant Biomass</b>		100					
Status report of FY00 accomplishments	29-Dec-2000		Completed	Draft report has been submitted to management for review.			
Two technical draft reports on results of statistical model development and numeric model results.	30-Jun-2001					80% complete. Both models will be refined with summer 2001 data.	
Final technical reports as specified above will be completed and manuscripts prepared for internal peer review.	29-Sep-2001						Numerical model report pending (Best, COE), Statistical model 90% complete and will be completed by November 1.
<b>Integrated Analysis of Fish Monitoring Data</b>							
		144.9					
Submit recommendation and justification for FY01 fish sampling protocol.	March 2001		In progress	80% complete	Analytical results posted to the web		
Complete draft annual progress report for USGS review.	15-Aug-2001					In progress	Draft report complete, in UMESC review
Complete draft project status report.	28-Sep-2001					In progress	PSR will be drawn from revised report above following UMESC review
<b>OVER-TARGET PROJECTS</b>							
<b>HNA Models and Tools</b>							
		150					
Project status report on HNA validation	31-May-2001					50% Complete	
Complete porting of the Query Tool to Visual Basic	30-Sep-2001		In progress		10% completed	50% Complete	75% Completed, will be done Dec 2001
<b>Bathymetric Mapping of the UMRS</b>							
		300					
Complete bathymetric surveys	31-Aug-2001						Contracted surveys will be completed by November, 2001
Complete update of the UMESC bathymetry web pages	29-Sep-2001						Web pages will be updated when surveys are completed

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<b>Monitor Sedimentation and Erosion Along Transects in UMRS Backwater Areas</b>		50					
Complete winter surveys	28-Feb-2001		Completed		Completed		
Complete summer surveys	31-Jul-2001						Surveys completed
Complete update of database and web pages	29-Sep-2001						Database is updated and web pages are being developed
<b>Year 2000 Land Cover/Land Use and Aquatic Areas GIS Database, Task B: Year 2000 Non-Key Pool Photo Mosaics</b>		25					
Complete georeferenced photo mosaics for one-half of the LTRMP non-key pools	31-Jul-2001		In progress		10% completed	95% Completed	9 Non-Key Mosaics complete and delivered to Web Team; 7 more in final QC and will be completed by Nov 2001
<b>Year 2000 Land Cover/Land Use and Aquatic Areas GIS Database, Task D: Year 2000 LCU GIS Database for the Alton and Peoria Pools of the Illinois Waterway</b>		250				BRD-NMD Cooperative Project	
Complete photointerpretation for Alton Pool	31-Oct-2001					In Progress	PI Complete; Automation 90% Complete
Complete photointerpretation for Peoria Pool	28-Feb-2002						PI 50% Complete
<b>Year 2000 LCU and Georeferenced Aerial Photography for HREP Project Areas</b>		25					
Complete photo mosaics, LCU datasets, and reports for HREPs that fall within Pools 5-12	31-Aug-2001					75% completed	Complete
Complete photo mosaics, LCU datasets, and reports for HREPs that fall within Pools 13-26	31-Dec-2001						PI 70% Complete; Automation 25% Complete
<b>Restoration of Funding for LTRMP-Base Projects</b>							
Numerical and Statistical Modeling of Aquatic Plant Biomass	See above: APPLIED RESEARCH: INTEGRATED ANALYSIS						
Special Salary Rates for LTRMP Computer Specialist		25					
Fishery Resources of Deep Channels		20					
<i>Begin data collection</i>	01-Jun-2001					Completed	
Geospatial and Computer Support to Science		40					
Statistical Evaluation of Monitoring Data		35					
LTRMP Out-Pool Analysis							
<i>Complete analyses</i>	01-Nov-2001						

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<i>Final report to UMESC</i>	01-Mar-2002						
Analysis of Habitat Limitation for Centrarchids							
<i>Draft report to COE</i>	31-Oct-2001						
<b>Over-Target Projects</b>							
Initiate a scoping plan for the acquisition of precise elevation data (LIDAR) for the Upper Mississippi River.		15					
<i>Final Report.</i>	31-Oct-01						75% complete
Development of a geo-referenced database on unionid mussels in the Upper Mississippi River.		30					
<i>Produce database and GIS map.</i>	30-Sep-01						Complete
Implementation of Open River Field Station experimental trawl (Missouri BENTHIC trawl) in upper portion of the Middle Mississippi River, Upper Mississippi River Pool 26 and the lower Illinois River.		30					
<i>Submit summary report</i>	30-Oct-01						On schedule