

LTRMP Milestones

FY2000 Update

| Milestone | Target date in SOW | Current Status | 1st quarter | 2nd quarter | 3rd quarter | 4th quarter | FY2001 Updates |
|---|--------------------|----------------|--|--|---|---|----------------|
| 2.1 Aquatic Vegetation | | | | | | | |
| Complete year 1999 aquatic vegetation data quality checking and entry into the LTRMP database. | Dec. 29, 1999 | Completed | Completed | | | | Completed |
| Complete statistical analyses of 1999 aquatic vegetation data. | Mar. 30, 2000 | Completed | | Completed | | | Completed |
| Complete 1999 aquatic vegetation monitoring section of LTRMP 1999 monitoring summary report. | Apr. 30, 2000 | Completed | | | Work is 95% complete; awaiting final input from field stations | Completed | Completed |
| Complete Window I transect sampling. | Jun. 15, 2000 | Completed | | | Completed | | Completed |
| Complete SAV stratified random sampling. | Jul. 31, 2000 | Completed | | | Proceeding on schedule | Completed | Completed |
| Complete Window II transect sampling. | Aug. 31, 2000 | Completed | | | | Completed | Completed |
| 2.2 Fish (Study Plan Title 7) | | | | | | | |
| Complete the third FY 1999 fish sampling effort (September 16 - October 31, 1999) | Oct. 30, 1999 | Completed | Completed | | | | Completed |
| Complete 1999 fish monitoring section of LTRMP 1999 monitoring summary report. | Dec. 29, 1999 | Completed | Still working on identification of preserved fishes | Completed | | | Completed |
| Complete summary statistics and statistical analyses of 1999 fish data. | Mar. 31, 2000 | Completed | In progress. Statistical work is awaiting completion of data entry and QC. | 95% completed, awaiting final field station staff review | Completed | | Completed |
| Complete 1999 fish monitoring section of LTRMP 1999 monitoring summary Report. | Apr. 30, 2000 | Completed | | | Draft report has undergone internal review and is undergoing final revision by authors. | Draft report has been revised by authors, and the revised report section submitted to Branch Chief. | Completed |
| Complete the first year 2000 fish sampling effort. | Jul. 31, 2000 | Completed | | | Proceeding on schedule. | Completed | Completed |
| Complete the second year 2000 fish sampling effort. | Sep. 15, 2000 | Completed | | | | Completed | Completed |
| 2.3 Macroinvertebrates (Study Plan Title 8) | | | | | | | |
| Complete year 1999 macroinvertebrate data quality checking, calculate summary statistics, enter data into LTRMP database. | Dec. 31, 1999 | Completed | Completed | | | | Completed |
| Complete statistical analyses of 1999 macroinvertebrate data. | Mar. 31, 2000 | Completed | | Completed | | | Completed |

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| Complete 1999 macroinvertebrate annual status report and monitoring section of LTRMP 1999 monitoring summary report. | Apr. 30, 2000 | Completed | Annual Status Report submitted to Branch Chief 12/28/99. Report has gone through editing | | Revised report has been completed and is undergoing final, minor editorial revision. Production and distribution should be completed in August | Completed. Annual status report was published in August 2000, and draft section for summary report was submitted to Branch Chief. | Completed |
| Complete macroinvertebrate sampling efforts in each LTRMP study area. | Jul. 31, 2000 | Completed | | | Sampling completed on schedule. Data currently going through QA/QC process | Completed | Completed |
| 2.4 Water Quality (Study Plan Title 9) | | | | | | | |
| Complete fall stratified random sampling episode at each of the six LTRMP field stations. | Oct. 22, 1999 | Completed | Completed | | | | Completed |
| Publish 1993-1996 summary reports for each of the six LTRMP field stations. | Nov. 30, 1999 | All draft reports have been completed and reviewed | Milestone is 90% complete: *Lake City report was placed on the internet in October, will be printed in January; and distributed in February. *Proofs for Onalaska and Alton reports await management approval and minor revision. *Bellevue and Havana reports are in final formatting for production. Loss of report production staff may delay these substantially. *Open River report is in revised draft form. | | Milestone is 90% complete: *Lake City report was placed on the INTERNET in October, and was printed in January; and distributed in February. *Proofs for Onalaska and Alton reports await management approval and minor revision. *Bellevue and Havana reports have received final production formatting - awaiting final review. Loss of report production staff may delay these substantially. *Open River report is in revised draft form awaiting final review of previous reports. This report must incorporate any "global" changes made to previous reports and cannot be finalized before those reviews are completed. | Final reviews of all reports have been completed. Pool 4 report has been published. Remaining reports are in final stages of development, as follows: reports for Pool 8, Pool 13, Pool 26, and Illinois River are in final editing; Open River report is undergoing revision by authors after review. | Awaiting final report production |
| Complete year of 1999 water quality sampling at 2-week intervals. Implement new sampling design with 4-week sampling interval for fixed sites. | Dec. 31, 1999 | Completed | Completed | | | | Completed |
| Complete winter stratified random sampling episode at each of the six LTRMP field stations. | Feb. 15, 2000 | Completed | | Completed on schedule. | | | Completed |
| Complete error checking of 1999 water quality laboratory analyses. | Mar. 31, 2000 | Completed | | Completed on schedule. | | | Completed |

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| Complete year 1999 water quality field data checking and entry to LTRMP database for fixed site sampling and SRS. | Apr. 30, 2000 | Completed | | | Completed on June 15; progress was temporarily delayed by staff vacancies. | | Completed |
| Complete spring stratified random sampling episode at each of the six LTRMP field stations. | May 15, 2000 | Completed | | | Completed on schedule. | | Completed |
| Complete transfer of previous years analytical data from laboratory database to LTRMP database. | May 30, 2000 | Completed | | | Entry of water quality laboratory data for 1997, 1998, and 1999 into the LTRMP database is underway. Transfer of data, which was slowed by verification and correction of data, should be completed by August 1, 2000. | Completed | Completed |
| Complete 1999 water quality section of the 1999 LTRMP monitoring summary report, including water quality summary statistics, analyses of spatial and temporal trends, of long-term patterns, sampling performance statistics, and interpretation of 1999 water quality conditions. | Jun. 30, 2000 | Completed | | | Work on milestone was delayed, pending verification and correction of water quality laboratory data. | Draft report section submitted to Branch Chief on September 15, 2000 | Completed |
| Complete summer stratified random sampling episode at each of the LTRMP field stations. | Aug. 15, 2000 | Completed | | | | Completed | Completed |
| Complete water quality sampling plan for FY 2001. | Sep. 1, 2000 | Completed | | | | Completed; reduced level of sampling used in FY 2000 will remain in effect in FY 2001. | Completed |
| Complete the LTRMP water quality Procedures Manual. | Sep. 29, 2000 | In progress (Note: This report, a procedures manual, will require full, blind peer review by USGS before external release, a process adding 3-4 months to the delivery date.) | | | | Revised draft completed and reviewed by water quality field team subcommittee on Aug. 30, 2000. Line-by-line review by all subcommittee members completed on Sept. 28, 2000, and incorporation of their review comments is underway. Next draft expected by October 20, 2000. | Draft Procedures Manual due February 2001. See FY2001 milestones. |
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| 2.6 Annual LTRMP Monitoring Summary Report | | | | | | | |
| Final Report complete, distributed. | Jul. 30, 2000 | In progress (80% complete) | | | Work on milestone has been delayed, pending availability of some 1999 component data and draft report sections. Draft report should be completed by Sep. 29, 2000. | Draft sections of report have been received from component and technical specialists. The full draft annual report is being assembled by Branch Chiefs. Anticipate completion of draft annual report by November 1, 2000. | In progress (90% complete). Lead on project changed from Jim Wiener to Barry Johnson. |
| 2.7 Fishery Resources of Deep Channels of the UMRS | | | | | | | |
| Commence sampling for Objectives 2 and 3. | Jul. 1, 2000 | In progress | | | Sampling has been delayed. Research vessel crew has been hired and trained in vessel safety and trawling by licensed, experienced captains. The trawling-vessel hull was extended (with USGS base funds) to remedy safety concerns. Subsequent X-ray examination of hull welds showed deficiencies that preclude safe operation until repaired. Satisfactory remedy from the vendor, under warranty, is expected in time to complete August sampling. | In late September, repairs to the vessel were completed, and the vessel was moved to Pool 26 to begin sampling. Normal sampling in paired navigation channels and side channels will begin in October and extend through December. Test sampling in Pool 26 during late September and early October was highly successful. | Near the beginning of the November sampling episode the trawler engine failed, most likely due to improper installation during 1996. The engine was replaced by the first week of December. However, the early record cold in December froze the marinas and prevented further sampling. |
| Complete annual increment of sampling for Objectives 2 and 3, and submit annual project progress report. | Sep. 29, 2000 | In progress | | | | Sampling will begin in October and extend through December (rescheduled due to delays caused by repairs to vessel). | See above. |

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| 2.8 Statistical Evaluation of Monitoring Data | | | | | | | |
| Draft progress report of accomplishments, findings, and interpretations. | Sep. 29, 2000 | Work is behind schedule due to problems with recruiting a suitably qualified statistician into a term position. (Despite the delay, this analysis remains a high scientific priority for the Program) | | | Work is underway to design a statistically defensible sampling plan for benthic macroinvertebrates in the Open River reach. Other work has been delayed by problems with recruiting statisticians into term appointments; a position is being created for a permanent statistician. Other options for acquiring statistical expertise will also be explored. Action: USGS will provide an estimate of unused funds remaining and will recommend to USACE options for reprogramming. | Given the concurrence of Corps project managers, funds from FY2000 have been carried over to FY 2001 to support this effort. A personnel action to recruit a permanent statistician is underway; the position will be advertised by October 13, 2000. | Given the concurrence of Corps project managers, funds from FY2000 have been carried over to FY 2001 to support this effort. A personnel action to recruit a permanent statistician is underway. |
| 2.9 Spatial Analysis of Fish Monitoring Data Collected by Active Gear | | | | | | | |
| Begin sampling outside of present LTRMP study areas by roving by crews from two field stations. | Aug. 1, 2000 | Completed | | | | Target goals were exceeded. The scope of work specified that out-pool sampling be done in reaches adjacent to 2 of the 6 trend analysis areas and that sampling begin on August 1; however, to increase sample size and better represent seasonal variation, sampling was begun on June 15 and will continue to October 31, 2000. Moreover, outpool sampling was accomplished by 3 of the 6 field stations (Lake City, MN; Bellevue, IA; Jackson, MO), and during mid-September, personnel at the six field stations also sampled Pool 19, Pool 20 and the area below dam 19. | Completed |
| Complete annual increment of sampling. | Sep. 29, 2000 | Work is on schedule. The target date for this milestone is incorrect. Sampling begun in FY2000 is scheduled to be completed by October 31, 2000. | | | | Data increments obtained from these out-pool areas will be available in spring 2001, when all samples have been processed and data entered. | Completed |

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| 2.10 Monitor Sedimentation and Erosion Along Transects in UMRS Backwater Areas | | | | | | | |
| Complete winter surveys. | Feb. 28, 2000 | Completed | | Completed | | | Completed |
| Complete summer surveys. | Jul. 31, 2000 | Completed | | | Completed | | Completed |
| Complete update of data base. | Sep. 29, 2000 | Completed | | | Completed | | Completed |
| 3.1 Characterization of the UMR Hydrologic Regime | | | | | | | |
| Meeting to select UMRS sites for analysis. | Feb. 2000 | Completed | | | Completed | | Completed |
| Corps will provide existing hydrologic regime data, formatted for use with INA software to the UMESC for all selected locations. | May 31, 2000 | In progress | | | In progress, awaiting USACE review of Study Plan Proposal. Action item: A workshop involving project participants from USGS and the three USACE Districts should be convened early in FY 2001 to facilitate project completion in FY 2001. | In progress, awaiting either USACE review of Study Plan Proposal or date for a workshop involving project participants from USGS and the three USACE Districts. | Awaiting report from St. Paul District. |
| Complete simulation of unregulated hydrologic regime for selected locations in the St. Paul District. | Aug. 25, 2000 | In progress | | | | see above | see above |
| Complete IHA analysis of present and unregulated conditions for sites within the St. Paul District. | Sep. 29, 2000 | In progress | | | | see above | see above |
| 3.2 Systemic Floodplain Landscape Analysis (Study Plan Title 16) | | | | | | | |
| Complete GIS database and summaries of land cover/land use changes (1890s, 1929, 1939, 1973/75, 1989) for the Upper Mississippi River. | Feb. 15, 2000 | In progress | Work is 75% complete. Milestone should be completed by February 28, 2000. | | Awaiting progress report from project principal investigator | Work remains 75% complete. | Project being re-assigned. By Feb. 1 new milestones will be established. |
| Draft LTRMP Technical Report "Comparisons of 1890s and contemporary landscapes of the Upper Mississippi River." | Jun. 30, 2000 | Incomplete | | | Awaiting progress report from project principal investigator | No significant progress was made on this report in FY 2000. The investigator is no longer employed through LTRMP, but the Univ. Wisconsin-La Crosse has arranged for the investigator to complete the work. Delivery of the draft report is expected by December 31, 2000. | Project being re-assigned. By Feb. 1 new milestones will be established. |

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| Draft LTRMP Technical Report "Landscape patterns along the Upper Mississippi River." | Sep. 15, 2000 | Incomplete | | | | No significant progress was made on this report in FY 2000. The investigator is no longer employed through LTRMP, but the Univ. Wisconsin-La Crosse has arranged for the investigator to complete the work. Delivery of the draft report is expected by December 31, 2000. | Project being re-assigned. By Feb. 1 new milestones will be established. |
| 3.3 Complete the 1989 LU/LC GIS Database for the UMRS (Study Plan Title 20) | | | | | | | |
| Complete Pools 1-3, lower St.Croix River. | Jan. 31, 2000 | Completed | Progress was slowed by failure of the large-format scanner. The scanner has been repaired, but will need to be replaced. Pools 1 and 2 are undergoing final map-joining and QA/QC, and are 90% complete. Pool 3 and the lower St. Croix River are being georeferenced and digitized, and are 75% complete. All four data sets should be completed and on-line by the target date or in early February. | Completed. Coverage provided to Web team for distribution. Scanner was replaced with equipment refreshment funds. | | | |
| Complete Open River Reach from Lock and Dam 26 to Grand Tower, Illinois and lower Kaskaskia River. | Jul. 31, 2000 | Completed | | | Completed on schedule | | Completed |
| Complete Alton, Starved Rock, Marseilles, Dresden, Brandon, and Lockport Pools of the Illinois River. | Sep. 29, 2000 | In progress (more than 90% complete) | | | | Alton and Starved Rock are completed. Remaining pools are about 90% complete, and ready to be cross-walked. | Completed |
| 3.4 Suspended Sediment Budgets for Pools 13 & La Grange (Study Plan Title 13) | | | | | | | |
| Complete and distribute Technical Report on suspended sediment budgets for Pools 13 and La Grange. | Sep. 29, 2000 | Completed | Project status report completed and distributed. | | | Completed. Draft completion report to USACE and draft manuscript for refereed journal were submitted in mid September and are undergoing internal (USGS) peer review. | Completed |

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| 3.6 Year 2000 LCU and Aquatic Areas GIS Database (Study Plan Title OT 12) | | | | | | | |
| Complete acquisition of systemic TC and CIR aerial photography | July-August 2000 | Completed | | | Work is on schedule; system flight planning is complete, and contract has been awarded. | Completed. All TC and CIR photos have been acquired. | Completed |
| 3.8 Investigation of Remote Sensing Technology for Land Cover Acquisition (Study Plan OT 7) | | | | | | | |
| Acquisition of 1:15,000 and 1:24,000 scale aerial photography and the 4-meter multispectral satellite imagery | Sep. 29, 2000 | In progress | | | (Satellite images have been ordered) | In progress: Aerial photography completed. IKONOS scene for Pool 22 acquired & received; for Pool 8 acquired but still being evaluated at Space Imaging; acquisition still pending for the La Grange Pool. Expect final determination of deliverable IKONOS scenes. | Completed |
| 3.9 Year 1975 LCU GIS Database (Study Plan Title OT 10) | | | | | | | |
| Complete 1975 LCU databases for UMR Key Pools (Pool 4,8,13,26, and the Open River South) and served via UMESC Internet site | May. 31, 2000 | Completed | | | Completed. Database has been delivered to Web Team for distribution. | | Completed |
| Complete 1975 LCU databases for UMR Pools 3-13 and the Open River North and served via UMESC Internet site. | Sep. 30, 2000 | In progress (95% complete) | | | | LCU databases are 95% complete and are undergoing final crosswalk and quality control review. | Completed |
| 4.1 Predict the Density Distribution of Selected Macroinvertebrates (Study Plan Title 1) | | | | | | | |
| Macroinvertebrate sampling for model calibration and testing completed in Pools 7, 8, and 13. | Sep. 29, 2000 | Completed | | | On schedule. Draft 1999 annual report received for internal review on July 3, 2000. | Sampling has been completed. The draft 1999 report has undergone internal review and is undergoing final revision by author. | Completed |
| 4.2 Numerical and Statistical Modeling of American wildcelery and Sago pondweed | | | | | | | |

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| Project status report completed and distributed. | Sep. 29, 2000 | Draft report and internal review have been completed. | | | | Draft PSR is undergoing revision after internal review. | Report completed; awaiting directions on distribution |
| 4.4 Integrated Analysis of Fish Monitoring Data (Study Plan Title 11) | | | | | | | |
| Complete statistical analysis of data. | Aug. 15, 2000 | Completed | | | On schedule | Completed. Spatial variation (among trend analysis areas) and temporal variation (among seasonal time periods and years 1990-1999) in fish populations were evaluated statistically by pair-wise comparisons of mean catch-per-unit-effort. Means for species richness, evenness, and diversity of fishes in multiple aquatic habitats have been calculated and compared statistically for differences among trend analysis areas and years. | Completed |
| Complete; distribute project status report. | Sep. 29, 2000 | Draft report and internal review have been completed. | | | Two project status reports (PSR's) were completed and released. Two journal manuscripts were submitted for internal Center review. | A third draft PSR, entitled "Asian carp invasion of the Upper Mississippi River System," was submitted on September 29. Internal review has been completed, and reviews have been forwarded to the lead author for revision. | Third PSR on Asian Carp completed. |
| 4.5 Sediment Type Distribution Modeling (Study Plan Title 2) | | | | | | | |
| Draft technical report on modeling sediment type distribution, submitted for review. | Sep. 29, 2000 | In progress (80% complete). | | | | Draft report is 80% complete. Submission of draft technical report expected by October 31, 2000. | Milestones changed to FY2001 |
| Project status report on modeling sediment type distribution completed, distributed. | Sep. 29, 2000 | In progress (80% complete). | | | | Draft PSR is about 80% complete. Submission of draft project status report expected by October 31, 2000. | Milestones changed to FY2001 |
| GIS databases on modeled sediment type distribution for Pools 4, 8, and 13 available via the UMESC Internet site. | Sep. 29, 2000 | In progress | | | | Completion expected in early November 2000. | Milestones changed to FY2001 |

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| 4.6 Fish Passage Through UMR Dams (Modification to Additional Study Plan Title 19) | | | | | | | |
| Begin literature review. | Mar. 2000 | In progress and on schedule | | | Literature review, for technical report due in June 2001, is 20% complete. | Literature review, for technical report due in June 2001, is 60% complete. | Literature review, for technical report due in June 2001, is complete except for report writing. Awaiting over-target funding. |
| Convene first workshop (panel of regional and national specialists) on consequences of fish passage restrictions in the Upper Mississippi River. | Sep. 2000 | Planning for workshop is in progress | | | A survey was developed, reviewed, and distributed. Results of the survey will be used to set the scope for the workshop, to be convened in fall 2000. | Survey results have been received and the workshop agenda set. Subject-area specialists have been invited, and we are awaiting responses from invitees to set a workshop date. | Awaiting over-target funding. |
| 4.7 Evaluate and Predict Habitat Suitability in Off-Channel Area of the UMRS | | | | | | | |
| Complete summer data collection in selected backwaters. | Aug. 31, 2000 | Completed | | | | Completed | Completed |
| Off-channel summer limnological data in a geo-referenced database. | Sep. 29, 2000 | Completed | | | | Completed | Completed |
| Complete maps of summer habitat conditions in selected backwaters. | Sep. 29, 2000 | Completed | | | | Completed | Completed |
| Complete draft Project Status Report. | Sep. 29, 2000 | Draft PSR completed for internal review | | | | Draft report completed for Branch Chief review | Draft PSR completed for internal review |
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| 6.1 Analysis of Monitoring Designs (Study Plan Title 6) | | | | | | | |
| Final Program Report on analysis of LTRMP monitoring designs. | Jul. 1, 2000 | Draft final report has been completed and revised, following internal review. | | | First-draft report has undergone internal review and is undergoing revision by authors. Report should be completed in September | Revised draft was completed and routed back to internal reviewers, who have indicated that further needed revisions are minor. Submission of final draft to Branch Chief expected by October 16, 2000. | Draft final report was completed and a revised draft following internal review was completed. A second revised draft is in progress. |
| 6.2 Systemic Bathymetry and Floodplain Elevation Surveys | | | | | | | |
| Complete inventory of existing bathymetric and floodplain elevation survey data, complete report. | May 31, 2000 | In progress | | | | Work is 75% complete. Completion is pending input of information from USACE offices in Rock Island and St. Louis. | Work is 75% complete. Completion is pending input of information from USACE offices in Rock Island and St. Louis. |
| Complete written contributions to contractual scopes of work, review of draft scopes of work. | Jun. 16, 2000 | Completed | | | | Completed | Completed |
| Complete links to existing bathymetric and floodplain elevation data via the UMESC Internet home page. | Jun. 16, 2000 | Completed | | | | Completed | Completed |
| 6.3 Sediment and Geomorphology Work Plan (Replacing Study Plan Proposal Title 13) | | | | | | | |
| Hold workshop. | Jul. 2000 | Completed | | | In progress. Workshop is scheduled for August 15-17. | Completed. A sediment and geomorphology working group was formed and a workshop convened in mid August. Specific information needs for river management and associated tasks were identified. | Completed |
| Complete draft planning document. | Sep. 29, 2000 | In progress (90% complete) | | | | Draft workshop report is 90% complete; submission to Branch Chief for internal review anticipated by October 13, 2000. | Completed |

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| 6.4 LTRMP Field Data Collection and Analysis Equipment Refreshment | | | | | | | |
| Initiate revision and updating of infrastructure priority list. | Nov. 1, 1999 | Completed | Completed | | | | Completed |
| Finalize priority infrastructure replacement/refreshment list. | Mar. 2000 | Completed | | Completed | | | Completed |
| Complete acquisition of priority infrastructure. | Sep. 30, 2000 | Completed | | | | Completed | Completed |