

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
MINIMUM SUSTAINABLE PROGRAM								
Aquatic Vegetation Component								
2008A1	Complete data entry and QA/QC of 2007 data; 1250 observations							
	a. Data entry completed and submission of data to USGS	30-Nov-07	✓ 7-Nov-07	Completed				Popp, Dukerschein, Bierman
	b. Data loaded on level 2 browsers	15-Dec-07	✓ 12-Nov-07	Completed				Schlifer
	c. QA/QC scripts run and data corrections sent to Field Stations	28-Dec-07	✓ 21-Nov-07	Completed				Sauer
	d. Field Station QA/QC with corrections to USGS	15-Jan-08	✓ 27-Nov-07		Completed			Popp, Dukerschein, Bierman
	e. Corrections made and data moved to public Web Browser	30-Jan-08	✓ 18-Jan-08		Completed			Sauer, Schlifer, Caucutt
2008A2	WEB-based annual Aquatic Vegetation Component Update with 2007 data on Public Web Server							
	a. Develop first draft	28-Feb-08	✓ 9-Jan-08		Completed			Sauer
	b. Reviews completed	28-Mar-08	✓ 21-Jan-08		Completed			Popp, Dukerschein, Bierman, Sauer, Yin
	c. Submit final update	18-Apr-08	✓ 5-Feb-08			Completed		Sauer
	d. Placement on Web with PDF	31-Jul-08	✓ 31-Jul-08				Completed	Sauer, Caucutt
2008A3	Complete aquatic vegetation sampling for Pools 4, 8, and 13 (Table 1)	31-Aug-08	✓ 31-Aug-08				Completed	Popp, Dukerschein, Bierman
2008A4	Final draft completion report: Developing submersed aquatic plant bioindicators and biocriteria for the Upper Mississippi River (2007A4)	30-May-08	✓ 10-Jun-08	2-13-2008; review comments to author		Completed; sent to COE		Dukerschein, Langrehr, Popp, Moore
2008A7	Web-based: Creating surface distribution maps for aquatic plant species in Pools 4, 8, and 13; 2007 data	31-Jul-08	✓ 24-Jan-07				Completed	Yin
2008A8	Final draft OFR: LTRMP Aquatic Vegetation Program Review (2007A9)	30-Sep-08					In review process	Heglund
2008A9	Draft manuscript: Aquatic vegetation in the UMRS	31-May-08	✓ 18-Jun-08			Completed		Popp, Moore
2007A9	Draft OFR: LTRMP Aquatic Vegetation Program Review	29-Feb-08	✓ 28-Mar-08		Completed			Heglund
2007APE1	Draft manuscript: Importance of the Upper Mississippi River Forest Corridor to Neotropical Migratory Birds	30-Mar-08	✓ 16-Apr-08		Completed			Kirsch
2007APE5	Draft manuscript: Status and trends of floodplain forests on the UMR	30-Mar-08	✓ 18-Apr-08		Completed			Yin
2007APE12	Draft LTRMP Report: Ecological Assessment of High Quality UMRS Floodplain Forests	29-Aug-08				Delayed to 30 April 2009 due to receiving funds late in year and flooding issues		Chick
Fisheries Component								
2008B1	Complete data entry, QA/QC of 2007 fish data; ~1,590 observations							
	a. Data entry completed and submission of data to USGS	31-Jan-08	✓ 1-Feb-08		Completed			Popp, Dukerschein, Bierman, Chick, Sass, Hrabik
	b. Data loaded on level 2 browsers; QA/QC scripts run and data corrections sent to Field Stations	15-Feb-08	✓ 4-Feb-08		Completed			Schlifer
	c. Field Station QA/QC with corrections to USGS	15-Mar-08	✓ 5-Feb-08		Completed			Popp, Dukerschein, Bierman, Chick, Sass, Hrabik
	d. Corrections made and data moved to public Web Browser	30-Mar-08	✓ 14-Feb-08		Completed			Sauer and Schlifer

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2008B2	WEB-based annual Fisheries Component Update with 2007 data on Public Web Server							
	a. Develop first draft	30-Apr-08	✓ 14-Feb-08			Completed		Sauer, Popp, Dukerschein, Bierman, Chick, O'Hara,
	b. Reviews completed	15-May-08	✓ 21-Mar-08			Completed		Sauer, Popp, Dukerschein, Bierman, Chick, O'Hara, Hrabik, Ickes
	c. Submit final update	31-May-08	✓ 6-Jun-08			Completed		Sauer, Popp, Dukerschein, Bierman, Chick, O'Hara,
	d. Placement on Web with PDF	31-Aug-08	✓ 24-Oct-08				Completed	Sauer, Caucutt
2008B3	Complete fisheries sampling for Pools 4, 8, 13, 26, the Open River, and La Grange Pool (Table 1)	31-Oct-08	✓ 31-Oct-08				Completed	Popp, Dukerschein, Bierman, Chick, O'Hara, Hrabik
2008B4	USGS Series: Non-native fishes in the Upper Mississippi River System: A Synthesis of Information from the Long Term Resource Monitoring Program (extension of 2005B8)	30-Sep-08					At USGS EPN	Sass, Irons
2008B5	Manuscript: Assessing habitat use by breeding Great Blue Herons (<i>Ardea herodias</i>) on the Upper Mississippi River National Wildlife and Fish Refuge, USA (intended outlet Waterbirds)	30-Apr-08	✓ 30-Apr-08			Completed: Assessing Habitat Use by Breeding Great Blue Herons (<i>Ardea herodias</i>) on the Upper Mississippi River, USA Eileen M. Kirsch, Brian Ickes, and Douglas A. Olsen. Waterbirds June 2008. Vol.31,Iss.2;p.252-267		Ickes
2008B6	Draft Manuscript: River engineering and flooding: Systemwide empirical modeling of the Mississippi and Lower Missouri Rivers (intended outlet Nature)	30-Apr-08	✓ 25-Mar-08			Completed: Pinter, N., A. A. Jemberie, J. W. F. Remo, R. A. Heine, and B. S. Ickes (2008), Flood trends and river engineering on the Mississippi River system, Geophys. Res. Lett., 35, L23404, doi:10.1029/2008GL035987		Ickes
2008B7	Draft Manuscript: Effects of river engineering on flow conveyance and flood stages: Reach-scale empirical modeling of the Mississippi and Lower Missouri Rivers (intended outlet Water)	1-Jul-08	✓ 11-Sep-08			FSP 11/18/08 - River Research and App		Ickes
2008B8	Draft manuscript: Fishes of the Mississippi River System: a 40 year synthesis of research on one of the world's great rivers (intended outlet Hydrobiologia)	30-Jun-08	✓ 12-Jan-09			In USGS review; undergoing peer review		Ickes
2008B9	Draft manuscript: Standardized CPUE data from multiple gears for community level analysis (re-worked 2006B5).	27-Jun-08				PI redirected to new tasks with INHS move to University; 30-Mar-2009		Chick
2006B6	Draft manuscript: Spatial structure and temporal variation of fish communities in the Upper Mississippi River. (Dependent on 2008B9 acceptance into journal)	30-Sep-08				New deadline 28 February 2009		Chick
2007B5	Draft LTRMP report: Trends in abundance of fish species linked to vegetation	30-Mar-08	✓ 3-Jun-08		Completed			Popp, Delain
2007B4	Draft manuscript: Proportional biomass contributions of Non-native fish to UMRS fish communities	31-May-08				Redirected to capitalize on program leverage opportunities and program outreach; 30 July 2009		Ickes

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2007B8	Draft manuscript: Proportional Size Density and Frequency of Occurrence of Flathead Catfish (<i>Pylodictis olivaris</i>), Channel Catfish (<i>Ictalurus punctatus</i>), and Blue Catfish (<i>I. furcatus</i>) in an impounded and unimpounded reach of the Upper Mississippi River. (Expanded work on 2006B12)	30-Sep-08				Submitted 27 Dec. 2008; sent back to author for revision; deadline 30 September 2009		Hrabik, McCain, Herzog
2007APE3	Draft LTRMP report: Testing the Fundamental Assumption underlying the use of LTRMP fish data: Does variation in LTRMP catch-per-unit-effort data reflect variation in the abundance of fishes?	30-Mar-08			Lab processing taking longer than expected; 30 June		New deadline: 30 March 2009	Chick
2007APE7	Draft completion report: Association between fish assemblage and off-channel area type in the impounded reach of the Upper Mississippi and Illinois rivers: implications for habitat restoration at management-relevant scales	31-Jan-08	✓ 27-Mar-08	Completed			Completion report delivered to COE on	Knights
2007APE8	A Proposal to restore Specific Monitoring Elements to the LTRMP	30-Apr-08	✓ 21-Jul-08			Draft submitted		Chick
Estimated distribution date								
Completion report: Habitat-related factors that are potentially limiting backwater fish communities (2006B8; Bartels)	30-May-08	✓ 20-Oct-08					Completed	
Completion report: Exploratory Analysis of Index of Biotic Integrity Scores Calculated from Datasets Obtained from Three Different Day Electrofishing Protocols (2006B9; Bartels)	30-Jul-08					In USGS review; through peer review		
LTRMP report: Investigate effects of newly completed HREPs (Lake Chautauqua NWR, Banner Marsh State Fish and Wildlife Area) in La Grange Pool (2006APE17b; O'Hara)	30-Sep-08	✓ 30-Mar-08			Approval from Reston 5 Feb. 2008		Completed	
Manuscript: Evaluation of a Catch and Release Regulation for Largemouth Bass in Brown's Lake, Pool 13, Upper Mississippi River (2007B7; Bowler)	30-Sep-08						At journal	
Completion report: LTRMP Fisheries Component collection of six darter species from 1989–2004. (2006B13; Ridings)	30-Sep-08						In USGS review	
Water Quality Component								
2008D1	Complete calendar year 2007 fixed-site water quality sampling	31-Dec-07	✓ 31-Dec-07	Completed				Houser, Popp, Dukerschein, Bierman, Chick, Sass, Hrabik
2008D2	Complete laboratory analysis of 2007 fixed site and SRS data; Data loaded to Oracle data base.	30-Mar-08	✓ 4-Mar-08		Completed			Yuan
2008D3	Complete data entry, QA/QC of calendar year 2007 fixed-site and SRS data.	30-May-08	✓ 1-May-08			Completed		Rogala, Popp, Dukerschein, Bierman, Chick, Sass, Hrabik
2008D4	Complete FY 08 fixed site and SRS sampling for Pools 4, 8, 13, 26, Open River, and La Grange Pool	30-Sep-08	✓ 30-Sep-08				Completed	Popp, Dukerschein, Bierman, Chick, Sass, Hrabik
2008D5	WEB-based annual Water Quality Component Update with 2007 data on Public Web Server.	30-Jun-08	✓ 29-Apr-08			Completed		Rogala
2008D6	Final draft LTRMP report: Sampling of light regime in support of aquatic vegetation modeling	30-Aug-08	✓ 15-Aug-08				Completed	Dukerschein, Giblin, Hoff
2008D7	Final draft LTRMP report: Pool 5 water quality, pre- and post-drawdown (2007D7)	30-Sep-08				In USGS review; through peer review		Popp, Burdis
2008D8	Final draft manuscript: Primary production, and dissolved oxygen dynamics in UMRS backwater lakes and main channel. (2007D8)	30-Jul-08					Delayed to 30 July 2009	Houser
2008D9	Final draft manuscript describing results of analyses of spatial and temporal patterns in UMRS WQ. (2006D5)	30-Aug-08	✓ 18-Jun-08			Draft submitted 18 June	Completed	Houser

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2006D7	Final draft completion report: Lake Pepin zooplankton and water quality data	31-Jul-08				In USGS review; through peer review		Popp, Burdis
2005D7	Final draft LTRMP report: Main channel/side channel report for the Open River Reach.	30-Sep-08			Report is in draft at the field station awaiting internal review. Should be completed and submitted to UMESC 1 June 2009			Hrabik
2007D7	Draft LTRMP report: Pool 5 water quality, pre- and post-drawdown	31-Aug-07	✓ 11-Apr-08			Completed		Popp, Burdis
2005APE26	Final draft LTRMP report: retrospective, cross-component analysis for Pool 26	29-Feb-08			Review comments submitted to author; new deadline 30 March 2009			Chick, Johnson
Estimated distribution date								
	Completion report: Evaluation of new Hydrolab Turbidity Probe (2006D6; Hoff)	31-Dec-07	✓ 21-Dec-07	Completed				
	LTRMP report: A decade of monitoring on Pool 26 of the Upper Mississippi River: Water quality and fish data with cross component analyses (2005APE27; Chick)	30-Sep-08					Review comments submitted to author	
	Completion report: Effectiveness of wetland creation (2006D8; Kirby & Bierman)	30-Sep-08					Redirected	
	Completion report: Examining nitrogen and phosphorus ratios N:P in the unimpounded portion of the Upper Mississippi River (2006D9; Crites)	30-Sep-08					Review comments submitted to author	
Statistical Evaluation of Monitoring Data								
2008E1	Draft completion report that describes methods of estimating variance components from LTRMP water quality data	15-Sep-08	✓ 26-Sep-08				Completed	Gray
Estimated distribution date								
	Completion report: "An introduction to the analysis of LTRMP's vegetation rake data" (2007E1; Gray)	15-May-08	✓ 4-Nov-08			Completed		
	Completion report: "Estimating temporal trends in data derived using LTRMP's submersed aquatic vegetation rake sampling design" (2007E2; Gray)	15-Jun-08	✓ 31-Oct-08			Completed		
	Completion report: "Cumulative HREP effects on ecological characteristics of impounded regions of the UMR" (2007APE10; Gray)	15-Jun-08				In USGS review; through peer review		
Data Management								
2008M1	Update vegetation, fisheries, and water quality component field data entry and correction	30-May-08	✓ 30-May-08			Completed		Schlifer
2008M2	Load 2007 component sampling data into Oracle tables and make data available on Level 2 browsers for field stations to QA/QC.	30-Jun-08	✓ 30-May-08			Completed		Schlifer
Land Cover/Land Use with GIS Support								
2008V1	Provide biannual updates to LTRMP management	Biannual			Completed		Completed	Robinson
2007APE13	Assessment of high-resolution digital imagery for UMRS vegetation mapping and software-based vegetation classification	30-Mar-08	✓ 4-Apr-08		In USGS review			Robinson

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Bathymetry								
2008T1	Provide biannual updates to LTRMP management	Biannual			Completed		Completed	Rogala
2008T2	Draft UMRS Bathymetric Data Acquisition Plan: Completion report	1-Aug-08	✓ 30-Sep-08				Completed	Hagerty, Rogala
Macroinvertebrate Component								
2005C2	Draft LTRMP Report: Open River macroinvertebrates	30-Sep-08	✓ 25-Jul-08				Completed	Hrabik
LTRMP Summary Report								
2007S1	2005 LTRMP Web-based summary report on-line	30-Jun-08	✓ 10-Nov-08			Completed		Johnson, Houser, Ickes, Yin
ADDITIONAL PROGRAM ELEMENTS								
2008APE1a	Draft completion report: Developing an empirical framework for reconstructing and modeling UMRS floodplain disturbance histories	30-Sep-08					Relevant historic features have been digitized from historic mapsets - progress report will present these and discuss changes in key attributes. Modeling under MSP in 2009. New deadline 30	Ickes
2008APE2	Draft LTRMP technical report; Setting quantitative fish management targets for LTRMP	30-Mar-09						Sass
2008APE3	Draft completion report: Evaluation of two double sampling designs for sampling mussel beds in the UMRS	30-Mar-09						Rogala
2008APE4a	Draft completion report: FY05-07 data--Analysis and support of aquatic vegetation sampling data in Pools 6, 9, 18, and 19	30-Dec-08						Yin
2008APE4b	Data entry and data quality checking of the 2008 data--Analysis and support of aquatic vegetation sampling data in Pools 6, 9, 18, and 19	30-Mar-09						Yin
2008APE5	Draft LTRMP Technical Report; Experimental and Comparative Approaches to Determine Factors Supporting or Limiting Submersed Aquatic Vegetation in the Illinois River and its Backwaters	30-Mar-09						Sass
2008APE6	Data set for 2008 field season: Hydrologic connectivity between off channel areas and the main channel: an empirical test of an important driver of potential HREP effects on biological production and organism health	30-Mar-09						Richardson
2008APE7	Draft Completion Report: A Proposal to Restore Specific Monitoring Elements to the LTRMP	30-Mar-09						Team Leaders
Data Visualization Tools								
2008VT1	Maintenance of LTRMP Graphical Browsers	30-Sep-08	✓ 30-Sep-08				Completed	Schlifer, Caucutt
2008VT2	Beta-version SQL code: rewrite of current fish SAS code used to generate synthesized fisheries information	30-Sep-08	✓ 30-Sep-08				Completed	Schlifer, Bartels
2008VT3	Develop a plan to rewrite the Water Quality Application	30-Sep-08	✓ 31-Oct-08				Completed	Schlifer
2008VT4	Servable LIDAR data of Pools 8-24	30-Sep-08					Delayed due to network licensing and program software issues. We were able to resolve these problems working with UMESC IT and program vendors. Pools 8-14, 20-24 collected. Pools 15-19 are scheduled for collection by the vendor fall 2008--	Robinson, Dieck, Nelson, Olsen